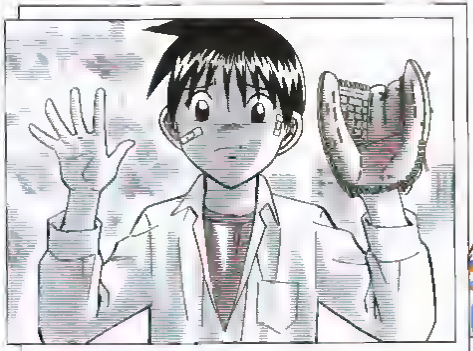


MONTHLY SHONEN MAGAZINE COMICS

Q.E.D.

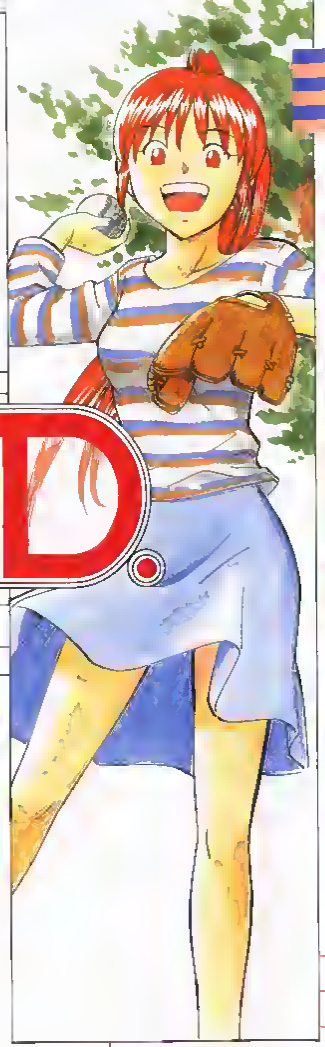
……証明終了……

Quod Erat Demonstrandum

加藤元浩

Motohiro Katou

15



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Q.E.D.

……証明終了

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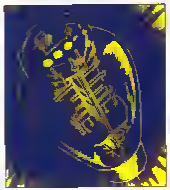

証明終了

ガラスの部屋

デデキントの切断

15

Demonstrandum

Sou Touma

MONTHLY SHONEN MAGAZINE COMICS

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Quod

MOTOHIRO KATOU

加藤元浩

講談社

Q.E.D.1
ニホルフォの鳴ノ星の雫
Q.E.D.2
ベガの宝ノロスト・ロワイヤル
Q.E.D.5
ブレイク・スルー・星せき風邪
Q.E.D.4
1stAor!!時計ヤコブの相棒
Q.E.D.5
盗んだ風車ノ光の代償
Q.E.D.6
クラシノモスク　ノ声の証言
Q.E.D.7
Serial John Doe ノ最後の手紙
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銀河の片隅にて ノ私の罪
Q.E.D.13
氷河の雫ノクライノの罪
Q.E.D.14
星にみ事件ノイレギュラ　パウント
Q.E.D.15
ガラスの墓場ノデテルトの記憶

This is the basis of playing catch!
If you take it easy against an opponent, you lose.
There!Fine... stay strong!
What? You want me to throw more slowly? Stay strong!
What? Slower?
Stay strong!
...Do you want to replace it with a gun ball?

Motohiro Katou

Q.E.D.15

証明終了

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Q.E.D.
証明終了
15

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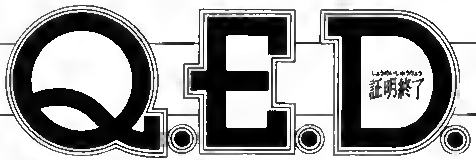
MONTHLY SHONEN MAGAZINE COMICS

We have supplied proof
for the following case
in the manner in which
we were asked.



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加藤元浩
MOTOHIRO KATOU

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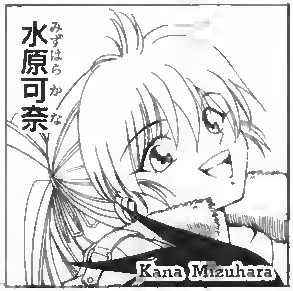
Dedekind Cut ·····99

CHARACTERS



燈馬のクラスメイト。刑事を父に持つ。男勝りの行動力と、脳天気なまでの明るさがウリの、健康優良女子高生。

マサチューセッツ工科大学を15歳にして卒業、日本の高校に再入学した超天才児。多方面に豊富な知識を有する反面、人間の感情には疎い。

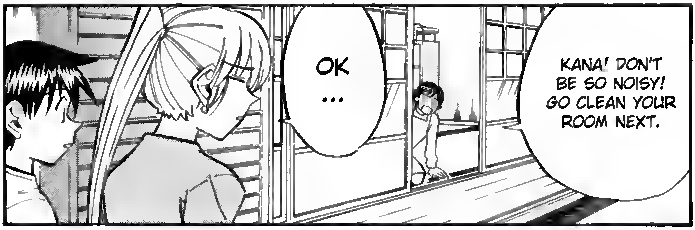
証明終了

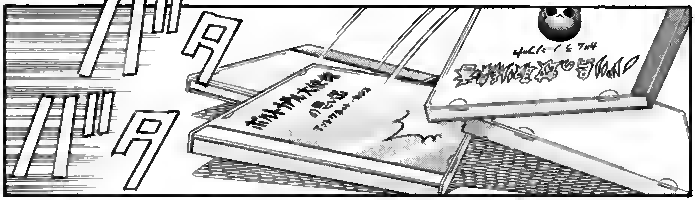
GOOD EVENING, OGAWA-SAN.
AH! GOOD EVENING, YAMAUCHI -SAN! YOU'RE HERE AS USUAL, HUH?
NO.5
ETSURO'S HERE?
YEAH. HE'S BEEN SHUT UP IN HIS ROOM THE WHOLE TIME.
HA HA HA, ARE YOU BUILDING A NEW AMPLIFIER AGAIN?

GLASS ROOM

Dec.
28
DECEMBER IS SHIWASU ..
SHIWASU MEANS A BIG CLEANUP DAY..
WHY DO I HAVE TO DO THIS TROUBLESOME WORK?

HAH!!
WE DON'T USUALLY CLEAN!
THAT'S BECAUSE...
WHAT IS THAT SONG?
YOU'VE NEVER HEARD OF IT? IT'S CALLED "IF YOU'RE HAPPY, HIT THE TATAMI."
IT'S A SONG YOU SING WHEN THERE'S TOO MUCH TO DO.
SO... WHY AM I AT YOUR HOUSE TO HELP WITH CLEANING UP ANYWAY?
WHAT CAN I SAY? DAD'S OUT WORKING SO THERE WEREN'T ANY GUYS TO HELP OUT.
BUT WHY ME?!
IT'S NOT LIKE I LIKE DOING THIS MUCH CLEANING EITHER!


KANA! DON'T BE SO NOISY! GO CLEAN YOUR ROOM NEXT.
OK ...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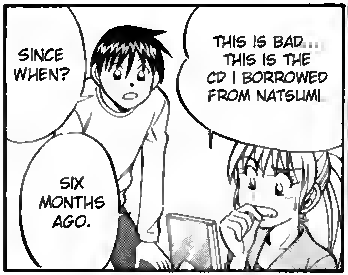
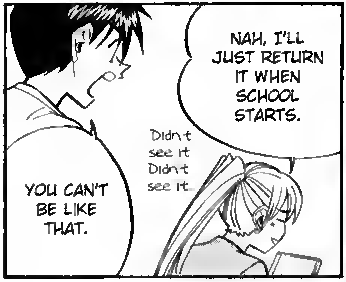

THIS IS BAD... THIS IS THE CD I BORROWED FROM NATSUMI.
SINCE WHEN?
SIX MONTHS AGO.


NAH, I'LL JUST RETURN IT WHEN SCHOOL STARTS.
Didn't see it. Didn't see it.
YOU CAN'T BE LIKE THAT.

UH OH ...
WHAT HAPPENED?

THE END OF THE YEAR IS THE END OF A SEASON, SO IT'S THE TIME TO RETURN THE THINGS YOU'VE BORROWED
YOU HAVE TO RETURN IT TODAY.
WHAT CAN I SAY... IT CAN'T BE HELPED
WE HAVE SOMETHING TO DO, SO WE'LL BE OUT FOR A WHILE.
WHAT?
THIS IS NATSUMI'S CONDO BUILDING.
THIS WASN'T TO ESCAPE FROM SPRING CLEANING, RIGHT?
OF COURSE NOT.

UM, IT'S NUMBER 502
DING!
5F
BECAUSE THIS IS...
KANA? WHAT ARE YOU...
KANA!
DAD!

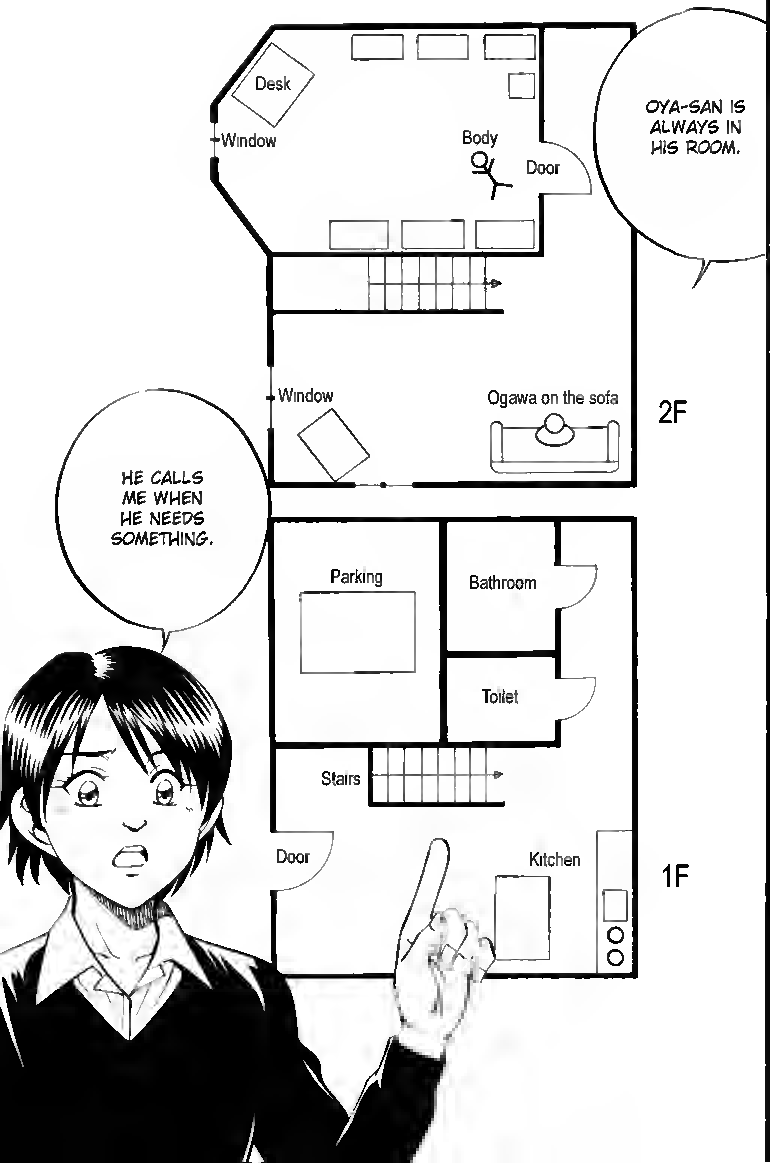
NATSUMI, WHAT HAPPENED?
MY ...
MY GRANDPA HAS BEEN MURDERED!
DAMN ...
OYA-SAN, FOR NOW, CAN WE HEAR YOUR STATEMENT AT THE POLICE STATION?
THAT'S FINE.
Oya Natsumi's Mother
Oya Toyoko

Police Station
警察署入口
SERIOUSLY, WHAT KIND OF JOKE IS THIS AT THE END OF THE YEAR?
WHY WERE WE CALLED HERE DURING THIS BUSY TIME?
ﾅﾅ

WHAT HAS HAPPENED? EXPLAIN!
Oya Etsuro's Hobbyist Friend
Yamauchi Isao
Health Foods Marketing Company President
Wakabayashi Yoshikatsu
HOW COULD THIS HAPPEN AT THE END OF THE YEAR..?
Oya Etsuro's House Helper
Ogawa Shouko
TODAY, I GATHERED ALL THOSE THAT VISITED OYA-SAN BEFORE HE WAS MURDERED.
TO SAVE TIME...

OYA-SAN WAS MURDERED?
PLEASE TELL ME WHAT YOU DID ON THAT DAY.
THIS ALL HAPPENED 2 DAYS AGO ON DECEMBER 26TH...
AT OYA'S HOUSE...
OYA ETSURO'S BODY...
WAS FOUND IN HIS ROOM.

EVEN THOUGH OYA-SAN ISN'T POOR, NOTHING WAS STOLEN.
IN HIS LEFT SIDE, WE FOUND A KNIFE WITH NO FINGERPRINTS.
HIS BODY WAS DISCOVERED THAT DAY AT 5 PM.
AH... YES.
IS THAT RIGHT, OGAWA -SAN?
I WAS KNITTING IN THE SECOND FLOOR LIVING ROOM.
AS USUAL, THAT DAY I WAS LISTENING TO MUSIC WITH EARBUDS.

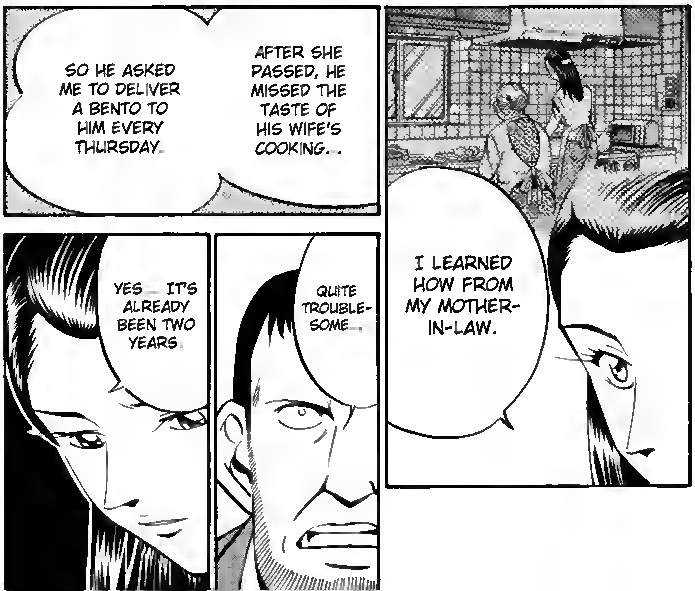

Desk
Window
Body
Door
OYA-SAN IS ALWAYS IN HIS ROOM.
Window
Ogawa on the sofa
2F
HE CALLS ME WHEN HE NEEDS SOMETHING.
Parking
Bathroom
Toilet
Stairs
Door
Kitchen
1F

BUT HIS VOICE IS LOUDER THAN THAT.
HEY! COFFEE!!
I LISTEN TO MUSIC WITH EARBUDS BECAUSE OYA-SAN DIDN'T LIKE NOISE.
THANKS.
HERE IT IS.
HOW CAN I FEEL BORED WITH SOMETHING AS UNIQUE AS THIS?
BORED?
MAKING A NEW AMPLIFIER AGAIN? EVEN IF YOU HAVE SO MANY ALREADY... DON'T YOU FEEL BORED?
Oya Etsuro

WHY DID YOU MAKE IT YOURSELF?
BUT AMPLIFIERS LIKE THIS ARE BEING SOLD IN AUDIO STORES.
THIS OLD-FASHIONED STUFF...
ISN'T NEWER STUFF BETTER THAN THIS?
IT WAS USED AS A PART OF OLD TYPES OF ELECTRONICS, RIGHT?
AND... THIS VACUUM TUBE BULB.
WHAT DID YOU SAY?
AMPLIFIERS THAT USE THIS VACUUM TUBE BULB...
PRODUCE BETTER SOUND THAN YOUR PLAYER!!

ALSO, THIS SHINING GLASS...
DOESN'T IT LOOK PRETTY?
NOT AT ALL.
LEAVE THIS ROOM!!
SO, I STAYED IN THE LIVING ROOM.
A STRANGE TYPE BUT ...
THE SALARY IS HIGH...
SO WHO CARES?
DING DONG
OH, TODAY IS...
COMING!

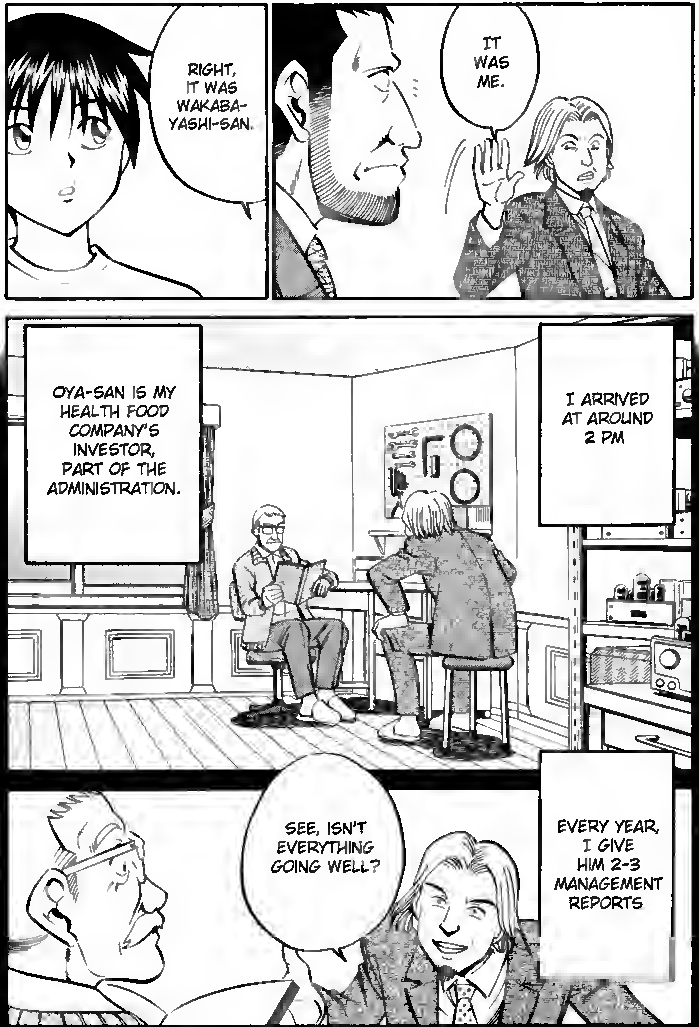
HELLO.
OYA-SAN'S SON'S WIFE TOYOKO-SAN BROUGHT A BENTO THAT DAY.
A BENTO?
YES.


AFTER SHE PASSED, HE MISSED THE TASTE OF HIS WIFE'S COOKING...
SO HE ASKED ME TO DELIVER A BENTO TO HIM EVERY THURSDAY.
I LEARNED HOW FROM MY MOTHER-IN-LAW.
QUITE TROUBLE-SOME...
YES... IT'S ALREADY BEEN TWO YEARS.

OH!
FATHER, HERE IS THE BENTO.
SORRY FOR THE TROUBLE...
THAT DAY, AROUND 11:30 AM...
DON'T LEAVE JUST YET!
THANKS AS ALWAYS, TOYOKO-SAN!
IT'S THE BEST! THE BEST!
MMM! THE TASTE OF THIS KINPIRA!
BY THE WAY, TOYOKO-SAN YOU SAID MY GRANDDAUGHTER NATSUMI IS PLANNING TO STUDY IN A PRIVATE UNIVERSITY IN THE METROPOLITAN AREA, RIGHT?
YOUR COOKING IS AS DELICIOUS AS MY WIFE'S COOKING!!
I AM REALLY HAPPY!

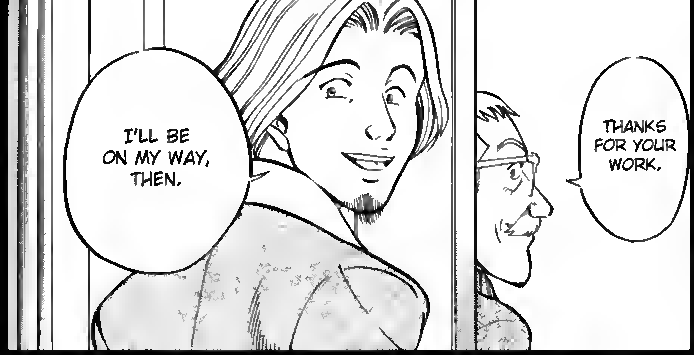
IN ADDITION, THERE IS THE CONDO LOAN, AND MY HUSBAND'S COMPANY IS GOING THROUGH A RECESSION... I MYSELF CAN ONLY TAKE PART-TIME JOBS
THAT WOULD NEED A LOT OF MONEY RIGHT?
WE'LL HAVE TO TAKE OUT LOANS IF WE CAN'T FIND SOMETHING ELSE...
THAT'S TRUE
.....
THEN KEEP FIGHTING!
THE UV202!
THIS IS A RARE ONE.
I JUST GOT THIS NEW VACUUM TUBE TODAY!!
THAT REMINDS ME, LOOK AT THIS!

OH, A BILL?
I WONDER HOW MUCH IT'S FOR?
RIP
TWO FOR 110,000 YEN.
請求書
大矢 様
¥110,00
AH, I'M GOING TO THE TOILET...
WELL, IT CAN'T BE HELPED.
I LEFT THE HOUSE A BIT AFTER NOON.
OK.
THEN, THE NEXT ONE TO VISIT OYA'S HOUSE WAS....

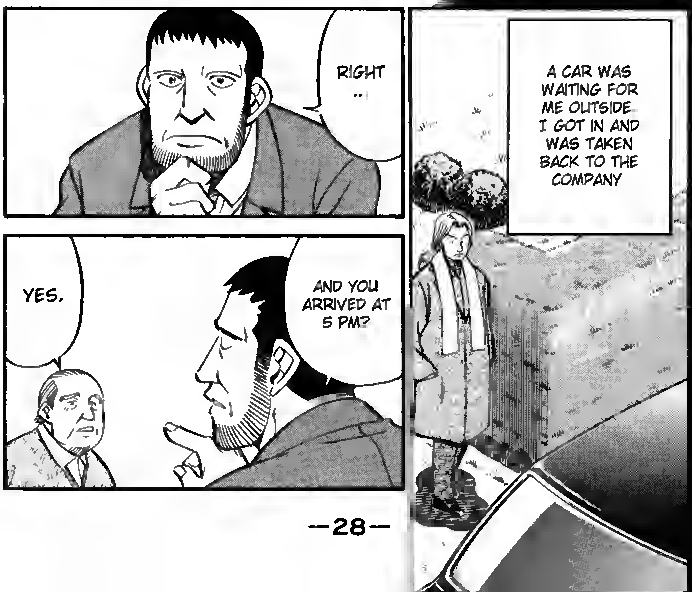

RIGHT, IT WAS WAKABA-YASHI-SAN.
IT WAS ME.
OYA-SAN IS MY HEALTH FOOD COMPANY'S INVESTOR, PART OF THE ADMINISTRATION.
I ARRIVED AT AROUND 2 PM
SEE, ISN'T EVERYTHING GOING WELL?
EVERY YEAR, I GIVE HIM 2-3 MANAGEMENT REPORTS

IN ANY CASE, I'VE GOT GREAT FORESIGHT.
7
YOU'VE INVESTED EVER SINCE YOU GAVE LOANS TO MY FATHER WHO RAN A SHEET METAL FACTORY.
UNFORTUNATELY, THE FACTORIES ARE CLOSING ONE AFTER ANOTHER. ONLY I SUCCESSFULLY BRANCHED OUT INTO NEW VENTURES
IT'S EFFECTIVE AGAINST ANY ILLNESS!
DOCTORS RECOMMEND TO TAKE IT.
BY THE WAY, HAVE YOU TRIED IT?
THIS IS THE SKULL MUSHROOM EXTRACT WE'RE SELLING!
OH RIGHT... I WANT TO SHOW YOU SOMETHING.
HA HA HA... IS THAT SO?

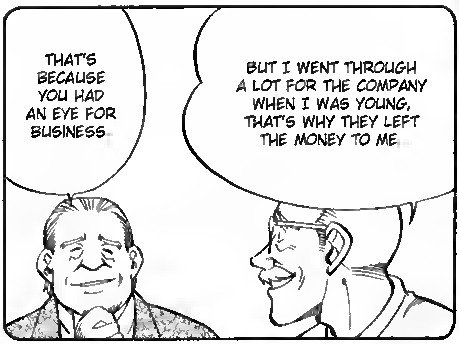
THE VIBRATION FROM THE GROOVES ON THE RECORD ARE AMPLIFIED TO PRODUCE MUSIC WITHOUT ELECTRICITY. SO WE CAN HEAR MUSIC FROM THIS OLD TYPE OF PLAYER
THIS IS A GRAMOPHONE.
EVEN LIKE THIS, THE SOUND IS GOOD!
OGAWA-SAN.
AFTER AN HOUR, AT 3 PM...
SO WE LISTENED TO MUSIC AND TALKED ...


THANKS FOR YOUR WORK.
I'LL BE ON MY WAY, THEN.

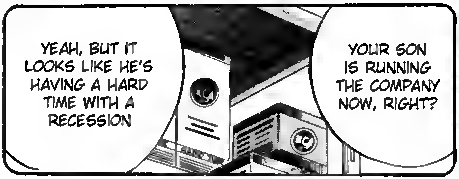
RIGHT BYE
EXCUSE ME.
CLICK

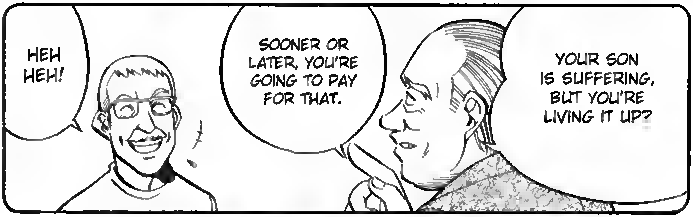

A CAR WAS WAITING FOR ME OUTSIDE I GOT IN AND WAS TAKEN BACK TO THE COMPANY
RIGHT ..
AND YOU ARRIVED AT 5 PM?
YES.

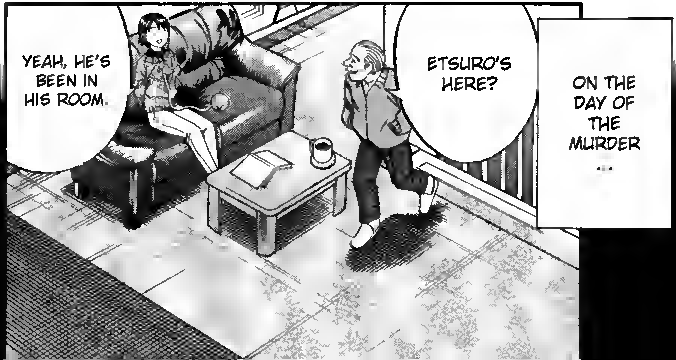
I GO AND VISIT ETSURO'S HOUSE.
AROUND THAT TIME...
STOP! DON'T TALK ABOUT THE PRICE.
SO YOU FOUND THIS BULB! WAS IT EXPENSIVE?
THE DAY BEFORE, WE TALKED EXCITEDLY ABOUT OUR HOBBY UNTIL DINNER.
A GOOD-FOR-NOTHING.
YOU REALLY ARE...
MY OLD LADY MIGHT RISE FROM THE GRAVE.
IF I ADDED UP ALL THE MONEY I SPENT ON THESE...
No.12


THAT'S BECAUSE YOU HAD AN EYE FOR BUSINESS.
BUT I WENT THROUGH A LOT FOR THE COMPANY WHEN I WAS YOUNG, THAT'S WHY THEY LEFT THE MONEY TO ME.

YOU'VE BEEN LIVING LEISURELY OFF YOUR PARENT'S INHERITANCE.
YOU POURED SO MUCH OF THAT MONEY INTO YOUR HOBBIES.


YEAH, BUT IT LOOKS LIKE HE'S HAVING A HARD TIME WITH A RECESSION.
YOUR SON IS RUNNING THE COMPANY NOW, RIGHT?


HEH HEH!
SOONER OR LATER, YOU'RE GOING TO PAY FOR THAT.
YOUR SON IS SUFFERING, BUT YOU'RE LIVING IT UP?


YEAH, HE'S BEEN IN HIS ROOM.
ETSURO'S HERE?
ON THE DAY OF THE MURDER...

ARE YOU BUILDING A NEW AMPLIFIER AGAIN?
CLICK
HA HA HA ...
AH!
WHAT HAPPENED?!
!!
CLICK

ETSURO WAS LYING IN A POOL OF BLOOD
ETSURO HOLD ON!
OYA-SAN, ARE YOU ALL RIGHT!?
WHAT'S THIS?

AND A BLANK PIECE OF PAPER IN HIS RIGHT HAND..
HE WAS HOLDING AN ENVELOPE IN HIS LEFT HAND
HMM ...
WHAT HAPPENED ..?
AND THESE THREE PEOPLE HAVE AN ALIBI!!
THAT MEANS OYA WAS KILLED BETWEEN 3 AND 5 PM.

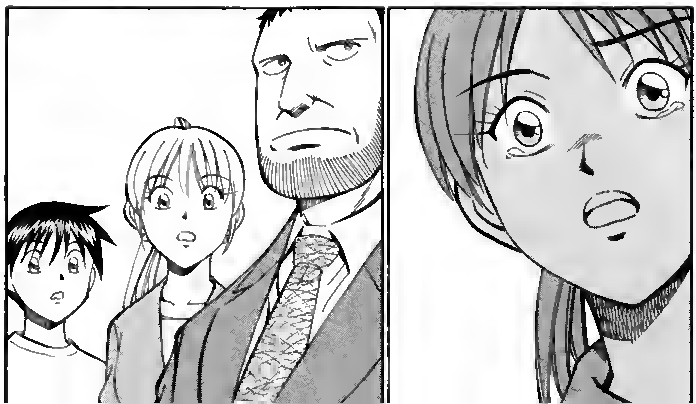
BUT WHAT IS HER MOTIVE? MONEY?
ONLY OGAWA DOESN'T HAVE AN ALIBI...
THAT 200,000 YEN IS STILL IN HIS WALLET.
NO, NOTHING WAS TAKEN FROM OYA-SAN'S HOUSE.
IT ISN'T HER.
BESIDES, WOULD A MURDERER CALMLY KNIT IN THE LIVING ROOM? NORMALLY, SHE SHOULD RUN.. SHE WOULD KNOW THAT YAMAUCHI WOULD COME AT 5 PM AND FIND THE BODY.
INSPECTOR MIZUHARA.

WE FOUND THIS AT THE CRIME SCENE.
FISHING LINE?
HMM ...
WE FOUND IT UNDER THE WINDOW.
INSPECTOR, CAN WE GO HOME NOW?

OKAY, THAT'S ENOUGH FOR TODAY.
IF SOMETHING HAPPENS, WE WILL CONTACT YOU.
AGH! THIS IS SO TROUBLE-SOME
WHAT DO I DO? I DON'T HAVE A JOB.
THIS IS REALLY TERRIBLE... I'LL DO WHAT I CAN TO HELP YOU.
THANK YOU.
MOM, ARE YOU OKAY?
YES.
KANA, I MIGHT NOT BE HOME FOR NEW YEAR'S.
TELL YOUR MOM.

NO WAY!
HEY, TOUMA -KUN!
.....
YOU HAVE A RESPONSIBILITY TO HELP.
YOU'RE THE ONE WHO USED "WE WANT TO RETURN THE CD!" AS AN EXCUSE!
WHAT!?
AFTER ASKING ME TO CLEAN, YOU'RE STILL DRAGGING ME INTO THIS TROUBLE?
REALLY?
THIS IS SO SAD.. HE WAS A GOOD PERSON ..

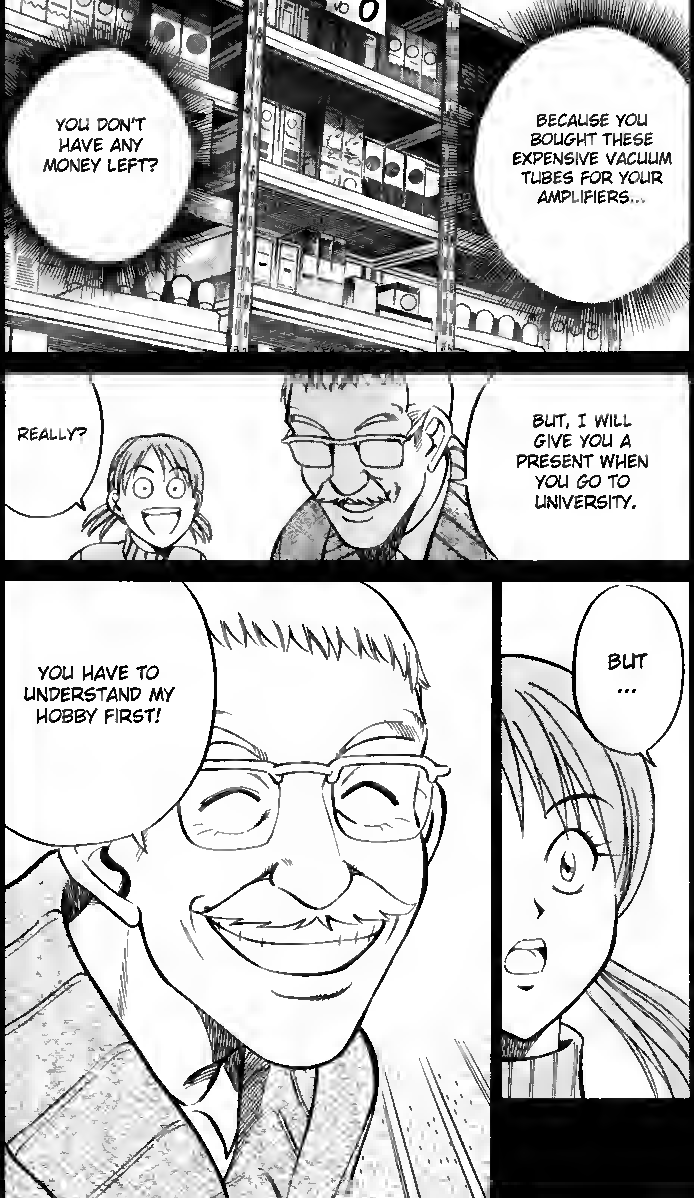
I DON'T THINK SO...



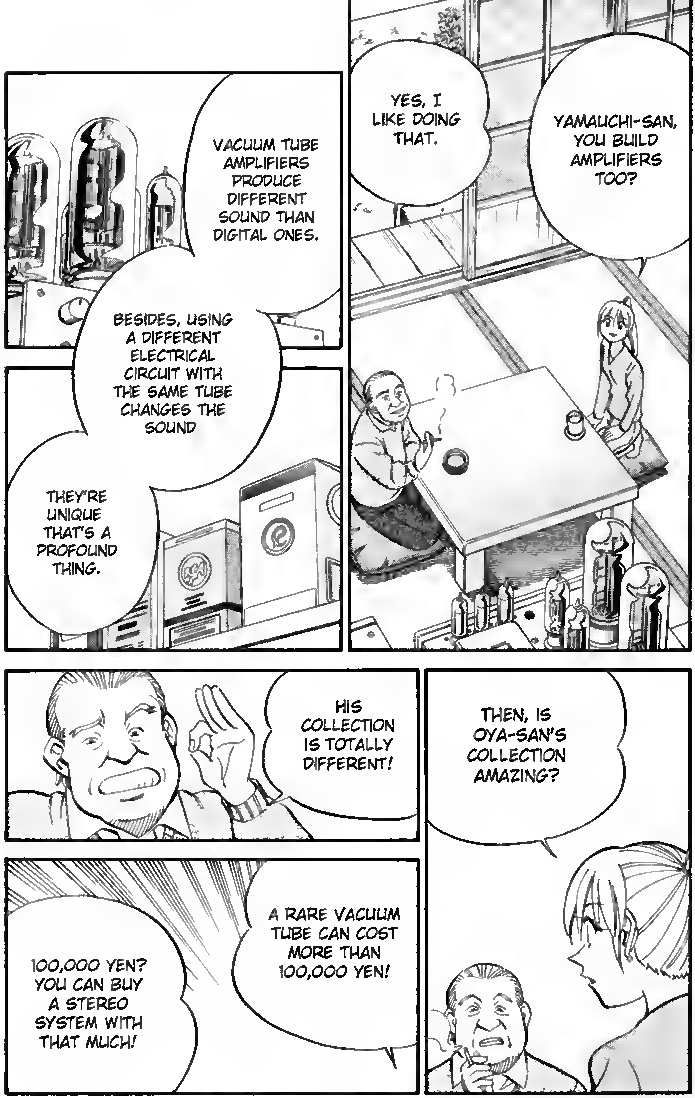
Dec.
29
GRANDPA'S BODY HAS BEEN EXAMINED BY THE POLICE.
AFTER THAT, WE HAD HIS FUNERAL...
WE ARE MOURNING, SO WE DIDN'T SEND ANY NEW YEAR'S CARDS.
THAT MUST HAVE BEEN HARD.

KANA ...
DON'T SUSPECT MY MOTHER BECAUSE OF WHAT SHE SAID.
EVERY WEEK, SHE HAD TO MAKE AND DELIVER THAT BENTO...
SHE MUST HAVE BEEN TIRED OF IT.
I ALSO WARNED GRANDPA.
DON'T DO IT! IT'S UNREASONABLE TO ASK MY MOM THAT!
SHE ALSO HAS A PART-TIME JOB, SHE IS VERY BUSY!
WHAT ARE YOU SAYING?!
IN THIS WORLD, I AM THE ONE THAT WILL RATE YOUR MOTHER'S FOOD NUMBER ONE!
THAT'S EVEN MORE VALUABLE!

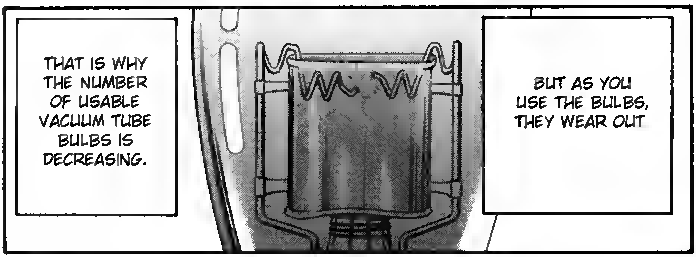
OH, NATSUMI! WHAT DO YOU THINK ABOUT THIS BULB? PRETTY, RIGHT?
NO, IT ISN'T...
YOU HAVE TO STUDY MORE.
HMPH!
I DON'T UNDERSTAND SOMETHING LIKE THAT!
HMM... YOU WOULD NEED MONEY...
DID YOU EVER CONSIDER GOING TO COLLEGE?
HUH, DON'T TELL ME THAT...
WHAT! YOU'RE RICH. CAN'T YOU HELP YOUR GRANDDAUGHTER A LITTLE BIT?
FOR NOW, WE'RE THINKING THAT THE METROPOLITAN AREA IS GOOD, AND I'LL TRY TO GET INTO A PRIVATE SCHOOL...

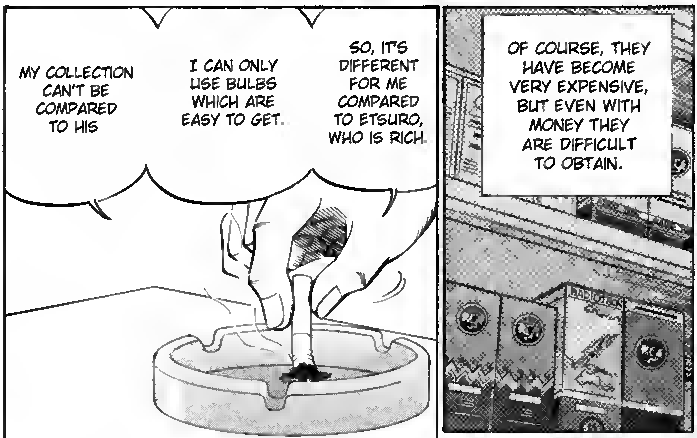

YOU DON'T HAVE ANY MONEY LEFT?
BECAUSE YOU BOUGHT THESE EXPENSIVE VACUUM TUBES FOR YOUR AMPLIFIERS...
REALLY?
BUT, I WILL GIVE YOU A PRESENT WHEN YOU GO TO UNIVERSITY.
YOU HAVE TO UNDERSTAND MY HOBBY FIRST!
BUT ...

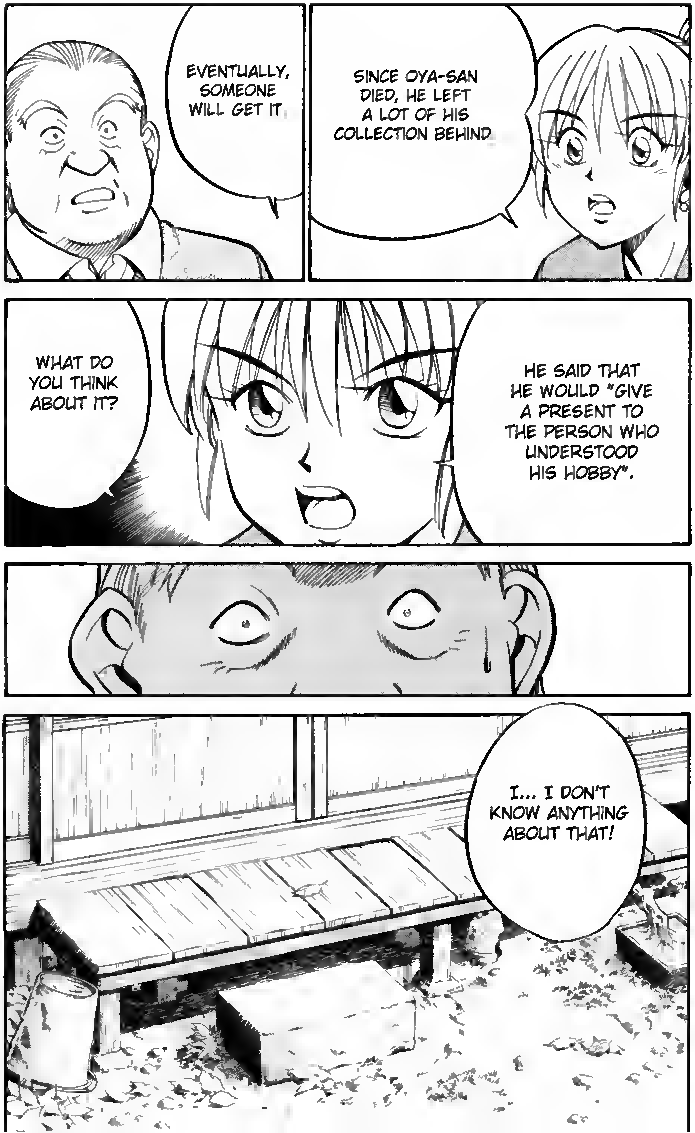
A PRESENT FOR SOMEONE THAT UNDERSTANDS HIS HOBBY?
HE SAID SOMETHING LIKE THAT.
HE IS A GOOD PERSON...
EVEN THOUGH HE IS A LITTLE DIFFERENT...
I WENT TO ETSURO'S PLACE TO TALK...
JUST LIKE I EXPLAINED TO THE POLICE...
THE DAY OF THE MURDER?

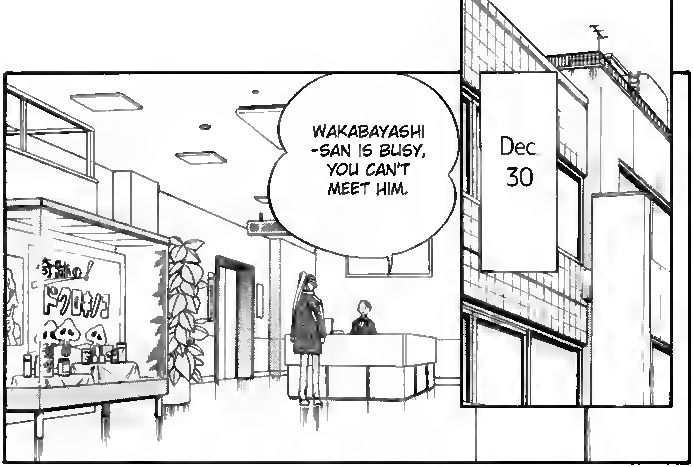

YAMAUCHI-SAN, YOU BUILD AMPLIFIERS TOO?
YES, I LIKE DOING THAT.
VACUUM TUBE AMPLIFIERS PRODUCE DIFFERENT SOUND THAN DIGITAL ONES.
BESIDES, USING A DIFFERENT ELECTRICAL CIRCUIT WITH THE SAME TUBE CHANGES THE SOUND
THEY'RE UNIQUE THAT'S A PROFOUND THING.
THEN, IS OYA-SAN'S COLLECTION AMAZING?
HIS COLLECTION IS TOTALLY DIFFERENT!
A RARE VACULUM TUBE CAN COST MORE THAN 100,000 YEN!
100,000 YEN? YOU CAN BUY A STEREO SYSTEM WITH THAT MUCH!

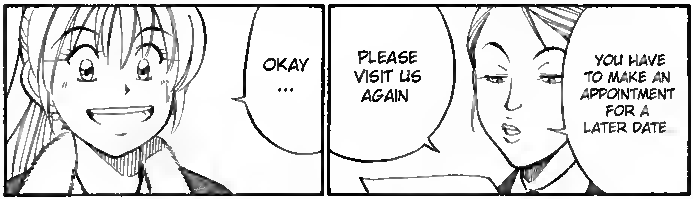
AN ALTERNATIVE IS TO USE OLD STYLE BULBS PRODUCED 60-70 YEARS AGO.
EVEN THOUGH VACUUM TUBES ARE STILL PRODUCED NOW...

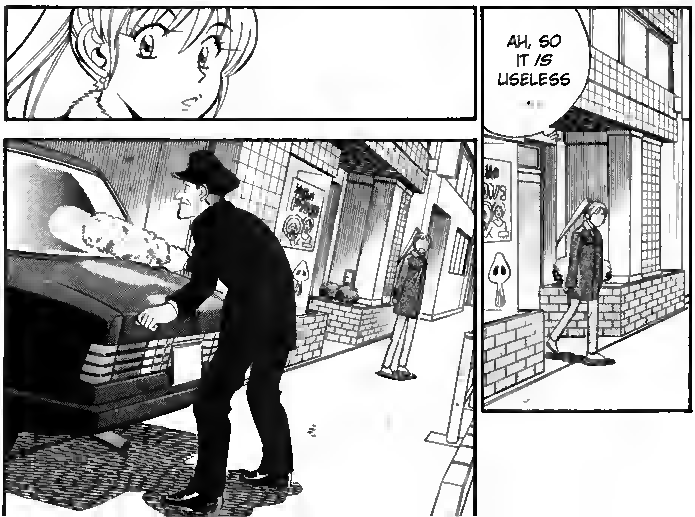

THAT IS WHY THE NUMBER OF USABLE VACUUM TUBE BULBS IS DECREASING.
BUT AS YOU USE THE BULBS, THEY WEAR OUT


MY COLLECTION CAN'T BE COMPARED TO HIS
I CAN ONLY USE BULBS WHICH ARE EASY TO GET.
SO, IT'S DIFFERENT FOR ME COMPARED TO ETSURO, WHO IS RICH.
OF COURSE, THEY HAVE BECOME VERY EXPENSIVE, BUT EVEN WITH MONEY THEY ARE DIFFICULT TO OBTAIN.


EVENTUALLY, SOMEONE WILL GET IT
SINCE OYA-SAN DIED, HE LEFT A LOT OF HIS COLLECTION BEHIND
WHAT DO YOU THINK ABOUT IT?
HE SAID THAT HE WOULD "GIVE A PRESENT TO THE PERSON WHO UNDERSTOOD HIS HOBBY".
I... I DON'T KNOW ANYTHING ABOUT THAT!

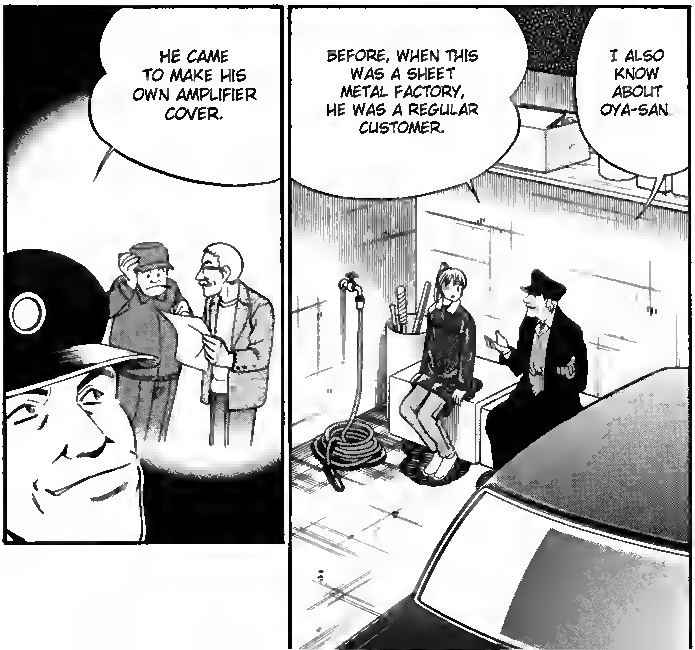

Dec
30
WAKABAYASHI -SAN IS BUSY, YOU CAN'T MEET HIM.


YOU HAVE TO MAKE AN APPOINTMENT FOR A LATER DATE
PLEASE VISIT US AGAIN
OKAY ...


AH, SO IT IS USELESS

!
THEN, I TAKE THE CAR WAITING FOR ME BACK TO THE COMPANY

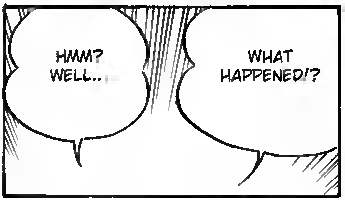
I WAS DEFINITELY THE ONE THAT DROVE HIM BACK.
I'M SURE.

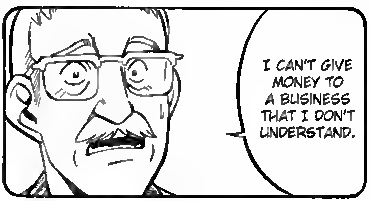

HE CAME TO MAKE HIS OWN AMPLIFIER COVER.
BEFORE, WHEN THIS WAS A SHEET METAL FACTORY, HE WAS A REGULAR CUSTOMER.
I ALSO KNOW ABOUT OYA-SAN.

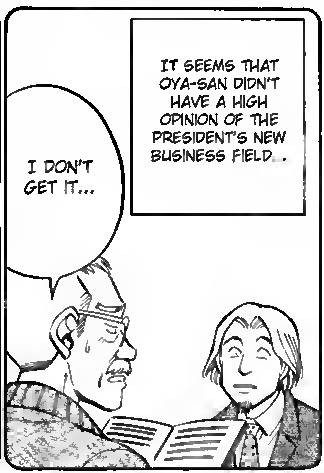
ACTUALLY, I WORKED THERE THEN.
IT SEEMS THAT HE GOT ALONG WELL WITH THE PREVIOUS PRESIDENT
THAT'S WHY HE INVESTED IN THE FACTORY.
THEN, THE PRESIDENT CHANGED, THE FACTORY CLOSED, AND THE COMPANY STARTED SELLING WEIRD HEALTH FOODS.
AND I BECAME A CHAUFFEUR..
BUT, THANKS TO THAT, AT LEAST I CAN STILL EAT.
.....
BY THE WAY, DID ANYTHING UNUSUAL HAPPEN THAT DAY?
NO ...

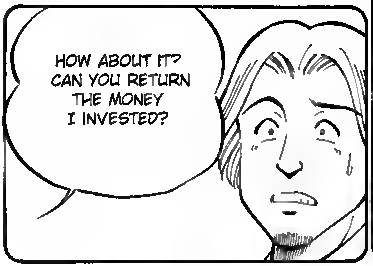
WE JUST TALKED..
HE ARGUED WITH OYA-SAN?

HE HAD AN ARGUMENT WITH OYA-SAN
AS USUAL ...


HMM? WELL...
WHAT HAPPENED!?


I CAN'T GIVE MONEY TO A BUSINESS THAT I DON'T UNDERSTAND.


IT SEEMS THAT OYA-SAN DIDN'T HAVE A HIGH OPINION OF THE PRESIDENT'S NEW BUSINESS FIELD..
I DON'T GET IT...


HOW ABOUT IT? CAN YOU RETURN THE MONEY I INVESTED?

HE DOES THAT SO THAT OYA-SAN DOESN'T WITHDRAW HIS INVESTMENT
BECAUSE OF THAT, EVERY TIME HE BRINGS IN A REPORT, THEY ARGUE.
THAT OLD MAN SUDDENLY SHOWED ME A GRAMOPHONE!
ON THAT DAY TOO...
DON'T SCREW AROUND WITH ME! DOES HE WANT TO SHUT DOWN THE COMPANY I WORKED SO HARD TO MAKE SUCCESSFUL?
HE SAID "I LIKE SIMPLE THINGS LIKE THIS, SO RETURN MY MONEY."!
YEAH, OYA-SAN IS REALLY A STRANGE MAN.

BUT, I LIKED HIM.

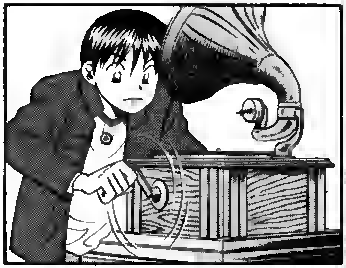
NO.7
NO.8
NO.8
NO.6
NO.12

NO 6
BUT IT'S UNLIKELY TO BE RELATED TO ORGANIZING THE VACUUM TUBES...
NO 12
I WONDER WHY THERE ARE NUMBERS IN THIS ROOM...
KNOCK KNOCK
UNLOCK IT!
LIKE YOU SAID...
THANKS!
IT'S POSSIBLE TO GET INTO THIS 2ND FLOOR ROOM USING THE TREE

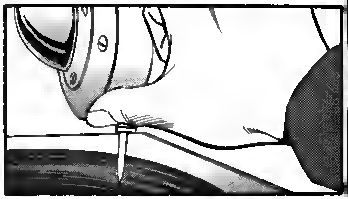
WASN'T THE WINDOW LOCKED ON THE DAY OF THE MURDER?
BUT, WHY DID YOU WANT TO LOOK AT THAT?
FISHING LINE WAS FOUND BELOW THE WINDOW.
DO YOU REMEMBER THIS?
I'VE MADE SOMETHING SIMILAR.
OR UNLOCK IT...
AND YOU CAN LOCK IT
THIS LOOP GOES HERE...
AND HOOKS ONTO THE LOCK.

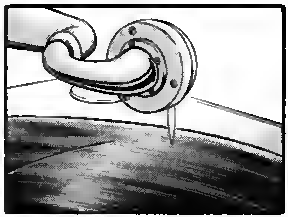
YOU CAN USE IT FROM OUTSIDE TO OPEN THE LOCK!!
CLICK
AH!
IF IT WAS THAT WAY, THIS TRICK CANNOT BE USED UNLESS IT'S SET UP FROM INSIDE THE ROOM
BUT THERE'S A PROBLEM.
WELL... DON'T RUSH TO CONCLUSIONS. LET'S LOOK OVER THE ROOM AGAIN.
FROM THE INSIDE.. IS THAT POSSIBLE!?

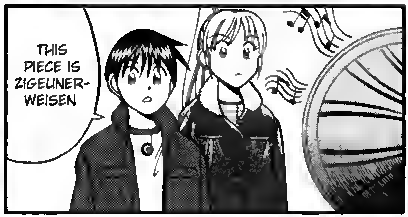
FIRST, ON THAT DAY, OYA-SAN WAS BUILDING AN AMPLIFIER
THEN HE WALKED OVER HERE..
AND PLAYED THE GRAMOPHONE FOR WAKABA-YASHI-SAN

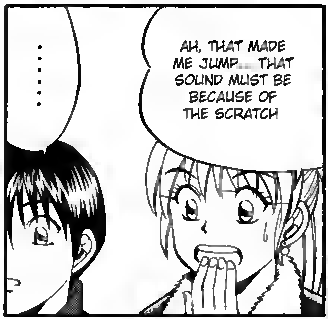


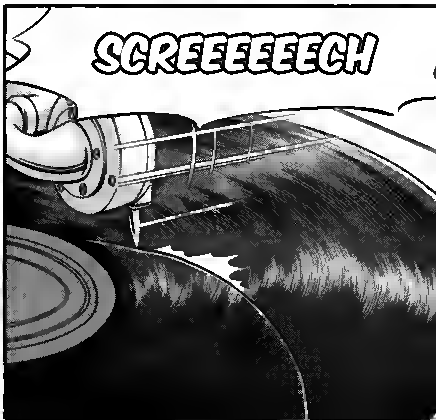
THERE'S A SCRATCH
...
POLYDOR





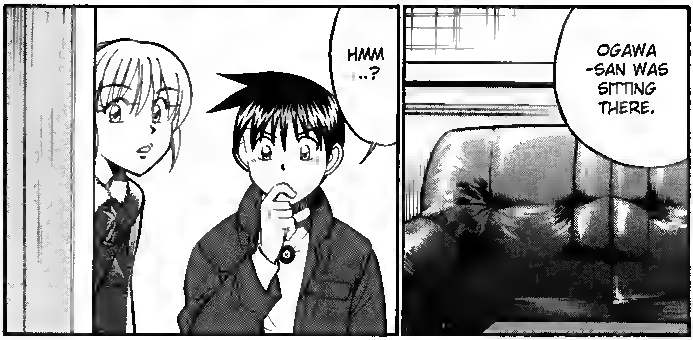

THIS PIECE IS ZIGEUNER-WEISEN

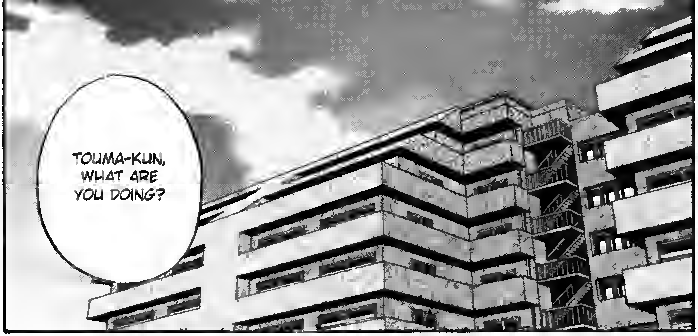

AH, THAT MADE ME JUMP... THAT SOUND MUST BE BECAUSE OF THE SCRATCH
.....

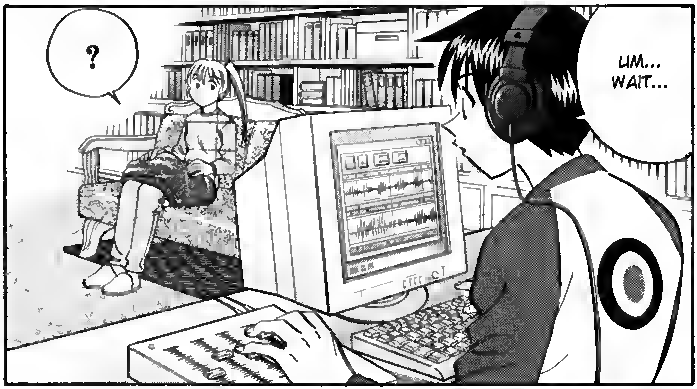

SCREEEEEECH

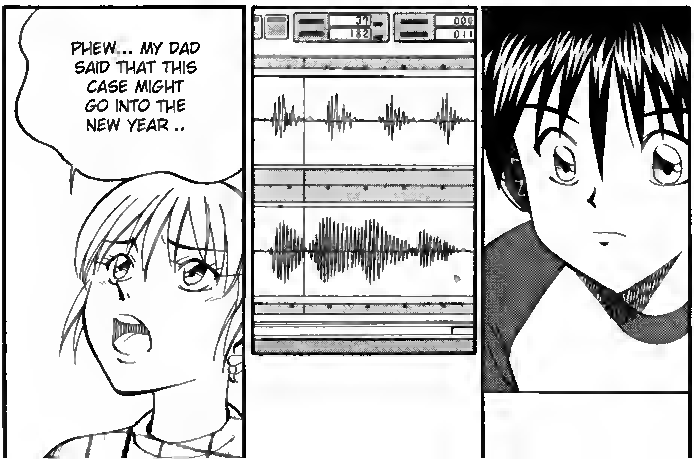
STRANGE, THIS MUST BE THE ONE WAKABAYASHI-SAN LISTENED TO WITH OYA-SAN
OYA-SAN FELL OVER HERE
WE WILL CHECK THAT LATER
SQUEAK
IF THE DOOR WAS OPEN...

THAT SOFA...


HMM ..?
OGAWA -SAN WAS SITTING THERE.


TOUMA-KUN, WHAT ARE YOU DOING?


?
UM... WAIT...


PHEW... MY DAD SAID THAT THIS CASE MIGHT GO INTO THE NEW YEAR ..

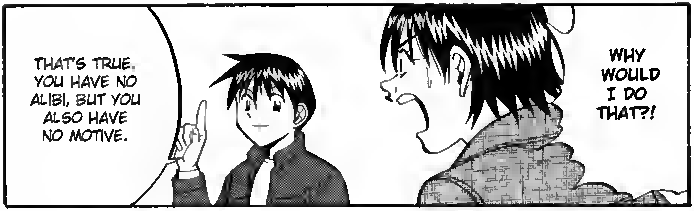
MIZUHARA-SAN, UNDERSTANDING SOMETHING DOESN'T MEAN THAT IT IS "THE TRUTH".
YOU FIGURED SOMETHING OUT?
IT MIGHT NOT...
WHAT IS THE MEANING OF THE SCRATCH ON THE RECORD!?
THE FALLEN FISHING LINE...
OYA-SAN HOLDING A BLANK LETTER...
AND WHO KILLED HIM!?
HOW WAS OYA-SAN KILLED...

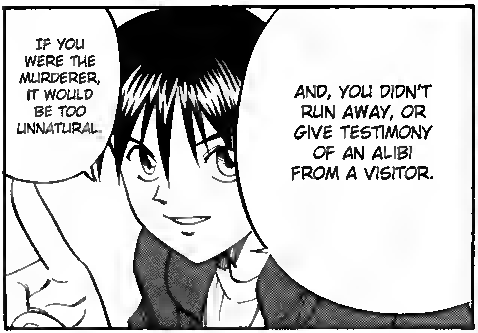
Q.E.D.

Dec.
31
INSPECTOR, LET'S GET THIS OVER WITH!
TODAY IS NEW YEAR'S EVE!

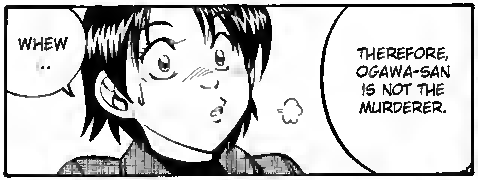
I'M SORRY, EVERYONE.
I THINK THAT EVERYONE CAN WELCOME THE NEW YEAR WITH NEW FEELING IF WE DO.
IN THAT CASE, WE WOULD LIKE TO SOLVE THIS CASE BY THE END OF TODAY.
WELL, EVERYONE, AS YOU KNOW, THIS IS THE CRIME SCENE.
THAT'S WHY I ASKED YOU TO COME.
OK, YOU'RE UP.

FROM THE LIVING ROOM, OGAWA-SAN COULD SEE WHO WAS GOING IN AND OUT.
THE WINDOW WAS LOCKED.
AND AT 5 PM, WE KNOW HE WAS DEAD...
AT 3 PM, WE KNOW OYA-SAN WAS ALIVE.
THAT IS THE ONLY PERSON WHO COULD BE THE MURDERER.
IN THIS SITUATION, THERE IS SOMEONE HERE WITHOUT AN ALIBI.
THAT IS OGAWA SHOUKO-SAN.


THAT'S TRUE. YOU HAVE NO ALIBI, BUT YOU ALSO HAVE NO MOTIVE.
WHY WOULD I DO THAT?!


IF YOU WERE THE MURDERER, IT WOULD BE TOO UNNATURAL.
AND, YOU DIDN'T RUN AWAY, OR GIVE TESTIMONY OF AN ALIBI FROM A VISITOR.

IF THE MOTIVE HAD BEEN MONEY, THE WALLET WOULD HAVE BEEN TAKEN, BUT IT'S STILL HERE.


WHEW...
THEREFORE, OGAWA-SAN IS NOT THE MURDERER.

A LOCKED ROOM MURDER.
THEN, THIS CASE AUTOMATICALLY BECOMES...

DESTROYS !?
NATURALLY, THIS LOCKED ROOM DESTROYS ALIBIS
BUT, THIS MURDER STILL HAPPENED.
AND, THIS FISHING LINE WAS FOUND.
KANA!
IF THE WINDOW WAS UNLOCKED, WE COULD GET IN
AS YOU CAN SEE, THERE IS A TREE BRANCH STICKING OUT IN FRONT OF THIS ROOM.
Eugh.

AND THEN PULL IT FROM THERE.
FWIP
THEN, PUT THE REST OUTSIDE THE WINDOW.
FOR EXAMPLE, BY SETTING UP THIS FISHING LINE.
CLICK
THE LOCK IS OPEN...
AH!!
!
WAKA-BAYASHI -SAN?
BUT IN ORDER TO USE THIS METHOD, YOU WOULD HAVE TO ENTER THE ROOM BEFOREHAND. YOU WOULD NEED TO SET UP THE TRICK.
SURE ENOUGH, THE ONE WHO COULD DO IT IS...
IN OTHER WORDS, YOU DID NOT RETURN TO THE WINDOW, SO IT'S NOT WAKABAYASHI -SAN
BUT THE CHAUFFEUR SAW YOU LEAVE THE HOUSE. HE GAVE TESTIMONY THAT HE IMMEDIATELY DROVE YOU BACK TO THE COMPANY.

THEN, THE ONLY ONE WHO COULD ENTER THIS WAY IS.
OYA TOYOKO -SAN.
WHEN YOU DELIVERED THE BENTO
I'M GOING TO THE TOILET
YOU COULD HAVE SET UP THE FISHING LINE.
THEN AFTER 3 PM, YOU COULD HAVE ENTERED THROUGH THE WINDOW.
AND KILLED OYA-SAN.

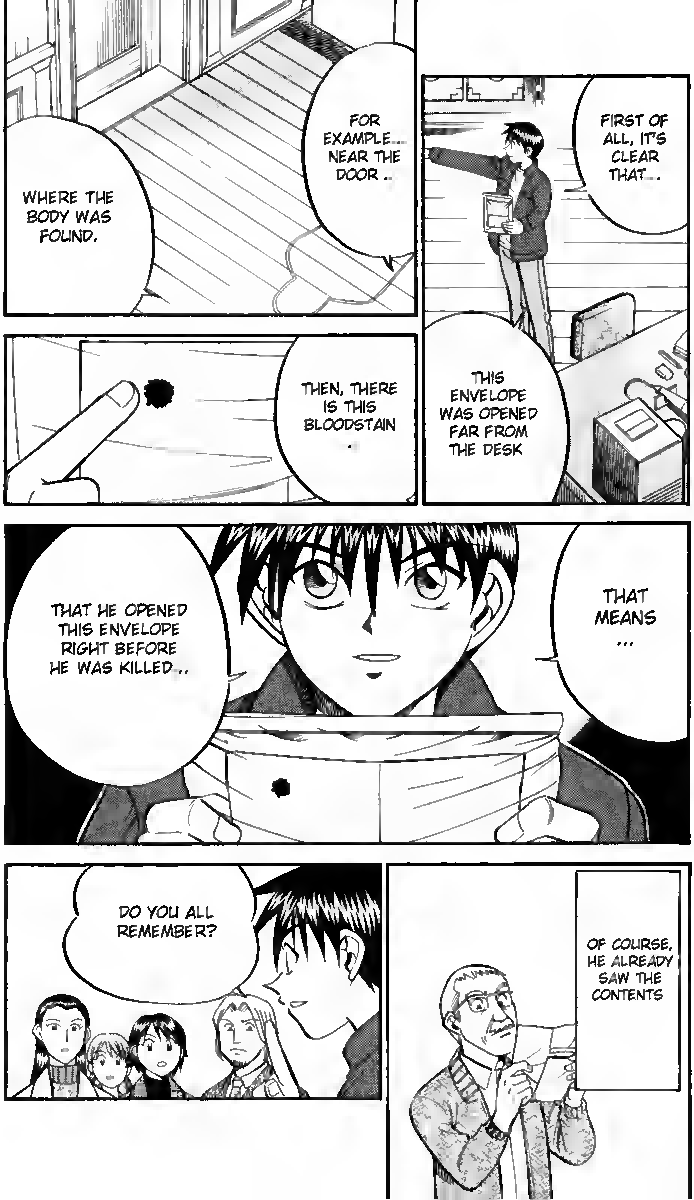
THAT'S WHAT THE MURDERER WANTS US TO THINK.
BUT ...
IT IS A TRICK TO BLAME TOYOKO -SAN FOR THE CRIME.
THIS FISHING LINE IS A COVER-UP...
HUH?
THE CRIMINAL MADE A MISTAKE!!
YOU CAN'T USE THIS TO CREATE A LOCKED ROOM!!
ARE YOU SURE?

AGAIN, PLEASE LOOK AT THE POSITION OF THE BRANCH TO THE WINDOW.
NOW, ALTHOUGH YOU CAN USE THE FISHING LINE TO UNLOCK IT ...
IF YOU WANT TO LOCK IT...
OH!!
THE POSITION OF THE BRANCH IS TOO HIGH.

IN OTHER WORDS, THE MURDERER WANTED US TO BELIEVE...
THAT SOMEONE USED THIS FISHING LINE...
THAT MEANS THAT THE MURDERER MUST BE SOMEONE...
WHO KNOWS THAT OYA TOYOKO-SAN DELIVERS A BENTO AT THIS TIME.
WELL, YAMAUCHI -SAN KNOWS OYA-SAN PERSONALLY
YOU KNEW THAT TOYOKO-SAN DELIVERS A BENTO EVERY THURSDAY, DIDN'T YOU?
ALSO, YOU ENVIED OYA-SAN'S COLLECTION.
SO, HOW YOU WOULD YOU HAVE DONE IT?

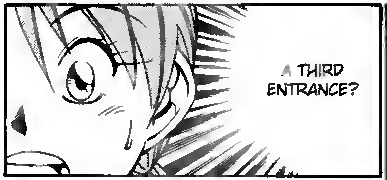
ON THAT DAY..
ARE YOU BUILDING A NEW AMPLIFIER?
THEN YOU KILLED OYA-SAN
AHH!!
THEN, YOU WOULD PRETEND TO BE THE FIRST PERSON TO DISCOVER THE BODY.
BUT... THERE IS ONE MYSTERY REMAINING...
THIS.

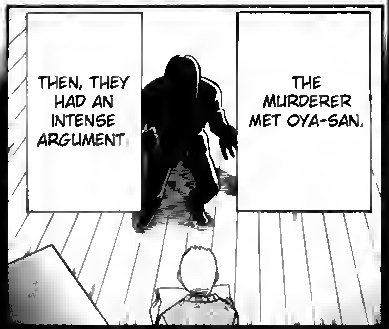
OYA-SAN WAS HOLDING AN ENVELOPE AND A BLANK PAPER.
WHAT DOES IT MEAN?
LOOK AT HIS DESK.
THERE IS A LETTER OPENER AND OPENED ENVELOPES.
THAT MEANS OYA-SAN USUALLY OPENS ENVELOPES USING A LETTER OPENER
BUT... HE OPENED THIS ENVELOPE BY HAND
WAS THERE SOMETHING IMPORTANT INSIDE?

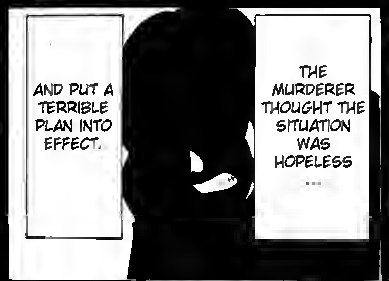

FIRST OF ALL, IT'S CLEAR THAT...
THIS ENVELOPE WAS OPENED FAR FROM THE DESK
FOR EXAMPLE... NEAR THE DOOR..
WHERE THE BODY WAS FOUND.
THEN, THERE IS THIS BLOODSTAIN
THAT MEANS ...
THAT HE OPENED THIS ENVELOPE RIGHT BEFORE HE WAS KILLED...
DO YOU ALL REMEMBER?
OF COURSE, HE ALREADY SAW THE CONTENTS

AND THE LIGHT WASN'T ON!!
YAMAUCHI-SAN CAME TO THIS ROOM AROUND 5 PM
OF COURSE, OYA-SAN WILL TURN ON THE LIGHT TO READ THE LETTER
?
IN THIS SEASON, THE ROOM WILL BE DARK AT 5 PM
WHEW ..
YOU'RE NOT THE MURDERER
AH!
SO YAMAUCHI-SAN THAT CAME AROUND 5 PM COULDN'T BE THE ONE WHO KILLED OYA-SAN

THEN, WHAT THE HECK...?
WHO KILLED GRANDPA, AND HOW?


A THIRD ENTRANCE?


THEN, THEY HAD AN INTENSE ARGUMENT.
THE MURDERER MET OYA-SAN.


AND PUT A TERRIBLE PLAN INTO EFFECT.
THE MURDERER THOUGHT THE SITUATION WAS HOPELESS ...

IN THIS ROOM, THERE IS A THIRD ENTRANCE...

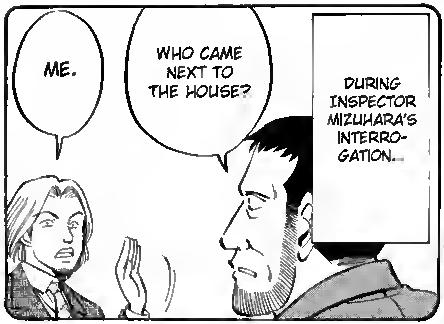
HMM?
AH, THIS IS FOR YOU.
WHEN THE CRIMINAL LEFT THE ROOM...
OGAWA -SAN.
WITH THAT LETTER, HE DREW OYA-SAN TO THE DOOR
YES?
HE MADE SURE THAT OGAWA-SAN SAW THAT OYA-SAN WAS ALIVE
I'M GOING BACK NOW.

WHILE OYA-SAN WAS CONFUSED, HE STABBED HIM THROUGH THE GAP BETWEEN THE FRAME AND THE DOOR.
WHAT IS THIS? THIS IS BLANK...
HMM?

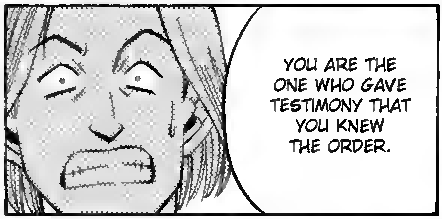
CLICK
EXCUSE ME, I'M GOING NOW.
AND RETURNED BY CAR
IT SEEMS HE THREW THE FISHING LINE BELOW THE WINDOW BEFOREHAND.

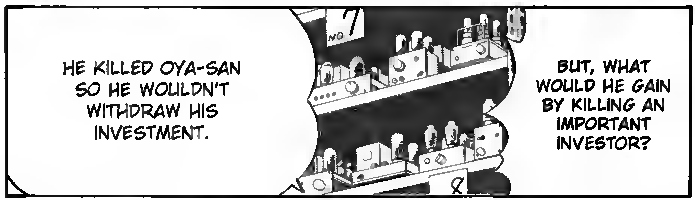
THIS DOOR'S LARGE HINGES ..
CREATE A BIG GAP...
IN SHORT, THIS IS THE THIRD ENTRANCE!
ALL OF THIS IS ONLY POSSIBLE FOR ONE PERSON!
THE ONE THAT KILLED OYA-SAN AND LEFT THE LETTER AND THE FISHING LINE...

THE MURDERER IS YOU...
WAKABAYASHI YOSHIKATSU-SAN.
HAH?!
DON'T MESS WITH ME!! THAT IS COMPLETE BULLSHIT!!
BY THE WAY, YOU'RE THE ONE THAT SAID...
THAT THE PERSON WHO LEFT THE FISHING LINE KNOWS THE ORDER OF OYA-SAN'S VISITORS!!
I DON'T KNOW THAT!


ME.
WHO CAME NEXT TO THE HOUSE?
DURING INSPECTOR MIZUHARA'S INTERRO-GATION...

NO ...
YOU KNEW THE ORDER.


YOU ARE THE ONE WHO GAVE TESTIMONY THAT YOU KNEW THE ORDER.

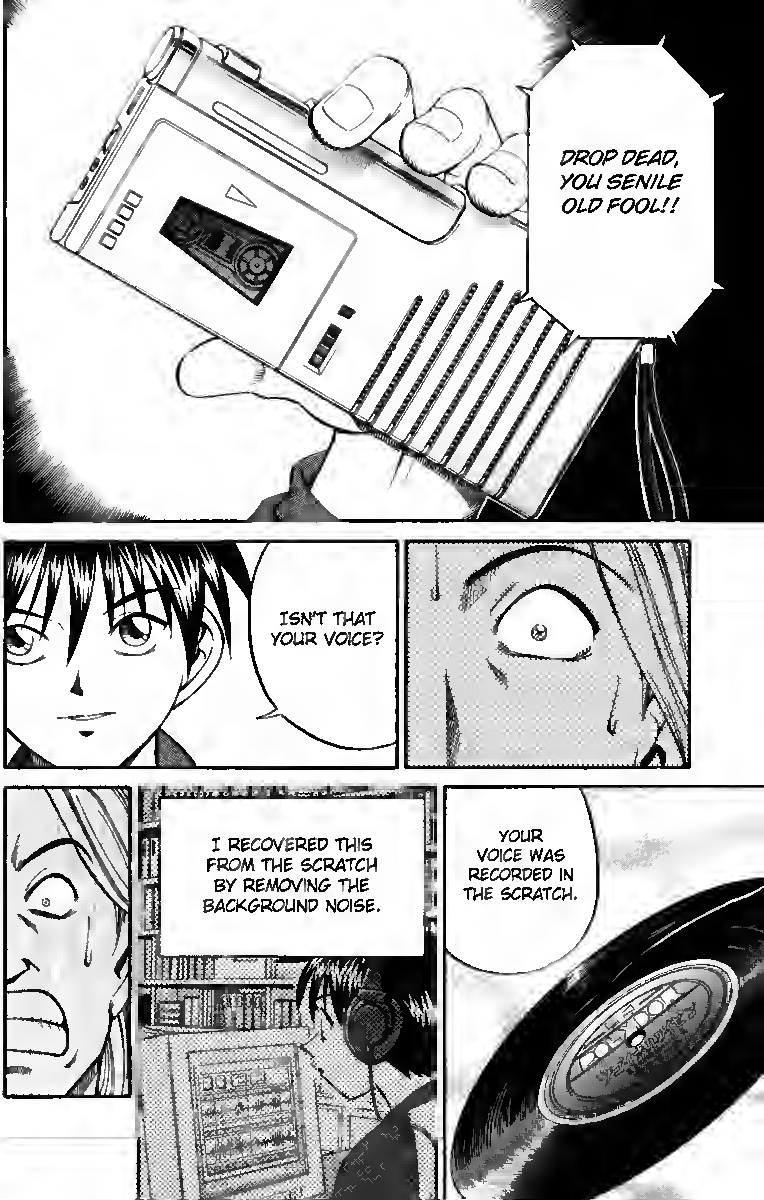

HE KILLED OYA-SAN SO HE WOULDN'T WITHDRAW HIS INVESTMENT.
BUT, WHAT WOULD HE GAIN BY KILLING AN IMPORTANT INVESTOR?

DON'T JUST RANDOMLY SPECULATE!! WHERE IS THE PROOF!!
YOU HAD A SERIOUS ARGUMENT WITH OYA-SAN.
THERE IS NO DOUBT THAT ON THAT DAY...

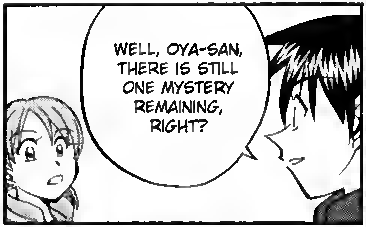
THERE IS A SCRATCH...
THIS IS THE RECORD THAT YOU LISTENED TO WITH OYA-SAN
AND THE RECORD WAS SCRATCHED...
THAT VIBRATION CAUSED THE NEEDLE TO JUMP...
AT SOME POINT, YOU STRUCK THE FLOOR
WHEN YOU ANGRILY ARGUED...
BULLSHIT!! WHAT IS THE EVIDENCE THAT I CAUSED THE SCRATCH?
WASN'T THIS SCRATCH CAUSED AT THAT TIME?

NO!! WE DIDN'T HAVE AN ARGUMENT!!
THIS SCRATCH WAS DEFINITELY FROM WHEN YOU HAD AN ARGUMENT WITH HIM
OYA-SAN TOLD YOU HOW GRAMOPHONES WORK, RIGHT?
WAKA-BAYASHI-SAN...
AND I AM NOT THE KILLER!!
SOMETHING IS RECORDED IN THE SCRATCH?
DON'T YOU THINK THAT MAYBE.
?
THE NEEDLE PICKS UP THE VIBRATION FROM THE RECORD'S GROOVES...
AND SOUND COMES OUT THROUGH THE HORN.

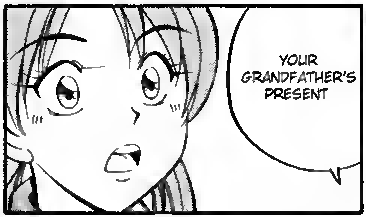
THE NEEDLE JUMPED...
YOU CAUSED A VIBRATION...
THAT DAY, BECAUSE YOU WERE ANGRY...
IT CARVED A GROOVE IN IT!!
AND SCRATCHED THE RECORD...
BY CARVING INTO THE RECORD...
AND IN REVERSE, THE NEEDLE TRANSMITTED THAT...
AT THAT TIME, THE HORN RECORDED *SOMETHING* ...
IT'S THIS.

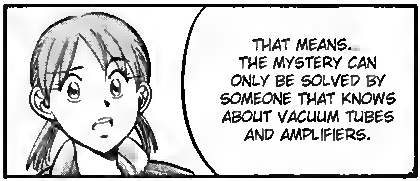

DROP DEAD, YOU SENILE OLD FOOL!!
ISN'T THAT YOUR VOICE?
I RECOVERED THIS FROM THE SCRATCH BY REMOVING THE BACKGROUND NOISE.
YOUR VOICE WAS RECORDED IN THE SCRATCH.

YOU ARE THE MURDERER.
YOU ABSOLUTELY HAD A FIGHT WITH OYA-SAN.
AND THEN YOU KILLED HIM


WELL, OYA-SAN, THERE IS STILL ONE MYSTERY REMAINING, RIGHT?

THEY ARE GOING NOW ...


YOUR GRANDFATHER'S PRESENT


THAT MEANS... THE MYSTERY CAN ONLY BE SOLVED BY SOMEONE THAT KNOWS ABOUT VACUUM TUBES AND AMPLIFIERS.

PLEASE TAKE A LOOK AT HIS COLLECTION.

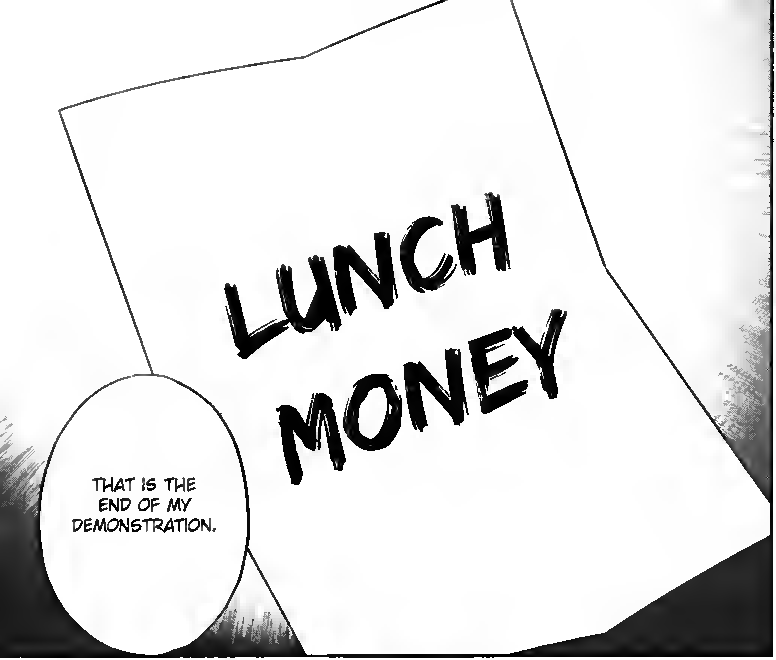
HE WOULD GIVE THAT PRESENT...
TO A PERSON THAT UNDERSTANDS HIS HOBBY...

THERE SHOULD BE A VACUUM TUBE INSTALLED HERE.
?
ACTUALLY, THERE IS SOMETHING STRANGE ABOUT ONE OF THESE SPOTS
WHAT? THAT'S UNREASONABLE!
OYA-SAN WANTED YOU TO NOTICE THAT.
BUT I WANT YOU AT LEAST TO UNDERSTAND ABOUT THE AMPLIFIER. .
I SUPPOSE IT IS UNREASON-ABLE.
I THINK OYA-SAN MUST HAVE BEEN LONELY.
BECAUSE OF THAT, OYA-SAN WANTED TO GIVE A PRESENT TO SOMEONE THAT UNDERSTOOD ...
WHEN HE TALKED TO PEOPLE ABOUT HIS HOBBY, HE WAS IGNORED...

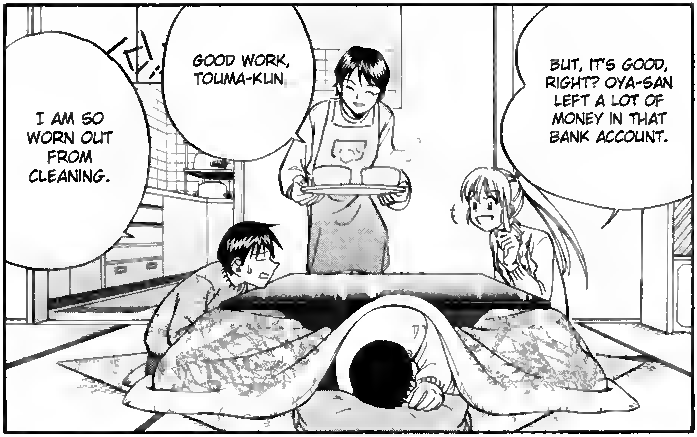
THIS VACUUM TUBE.
RADIO IRON
TUBE
RADIO TUBE
HMM ...
SHOULD BE PLACED HERE.
PLEASE HAVE A LOOK, THE SURFACE LOOKS LIKE A MIRROR.
THE ENTIRE ROOM IS REFLECTED THERE, RIGHT?
LIKE THIS?
TRY TO LOOK AT IT FROM ABOVE
AND, THERE ARE MANY ROUND MARKS ON IT.

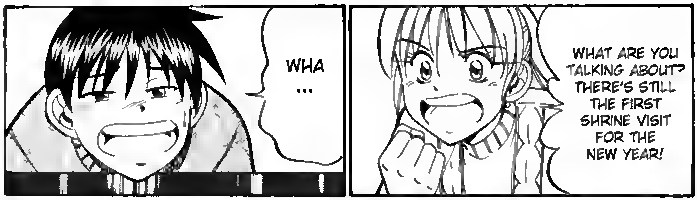
No.1
No.3
No.2
No.0
No.8

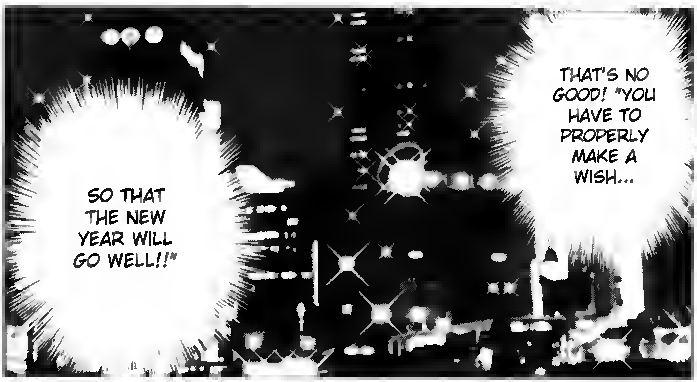
THERE ARE NUMBERS!
FROM ABOVE, YOU CAN FIND 3, 6, AND 9...
MAYBE THEY'RE THE NUMBERS FOR A SECRET BANK ACCOUNT
DO YOU KNOW WHAT IT MEANS?
THERE IS A LETTER IN THIS VACULUM TUBE BOX.
IT'S ADDRESSED TO TOYOKO -SAN
ME...?


LUNCH MONEY
THAT IS THE END OF MY DEMONSTRATION.

THE NEW YEAR BELL HAS RUNG.
THIS YEAR HAS ENDED PEACEFULLY.


I AM SO WORN OUT FROM CLEANING.
GOOD WORK, TOUMA-KUN.
BUT, IT'S GOOD, RIGHT? OYA-SAN LEFT A LOT OF MONEY IN THAT BANK ACCOUNT.


WHA ...
WHAT ARE YOU TALKING ABOUT? THERE'S STILL THE FIRST SHRINE VISIT FOR THE NEW YEAR!

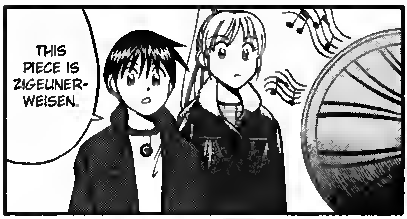

THAT'S NO GOOD! "YOU HAVE TO PROPERLY MAKE A WISH...
SO THAT THE NEW YEAR WILL GO WELL!!"

quod erat demonstrandum

証明終了

GLASS ROOM

Translator: Regis
Cleaner: An unnamed group
Typesetter/QC: argentscarf



This seems like a random reference, but there's a 1980 Japanese movie (also named Zigeunerweisen) where this piece was played using a gramophone.

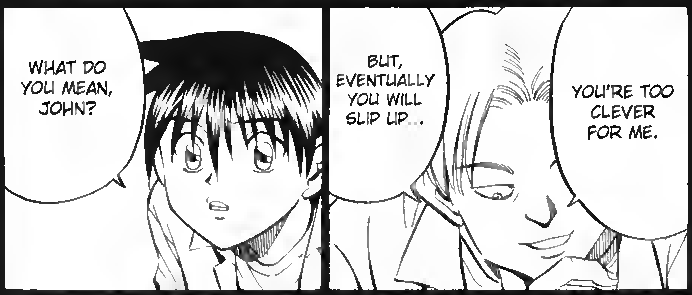
Q.E.D.
¥:／>q. e. d._
Q.E.D.
Q.E.D
Q.E.D.
Q.E.D.
Q.E.D.
Q.E.D
Q.E.D.
Q. E. D.
Q. E. D.
Q.E.D.

ORIONWAVE

Massachusetts Institute of Technology USA
YOUR MOVE, JOHN TOLL.
THERE ARE THINGS YOU CAN'T PREDICT...
BE CAREFUL, TOUMA ..

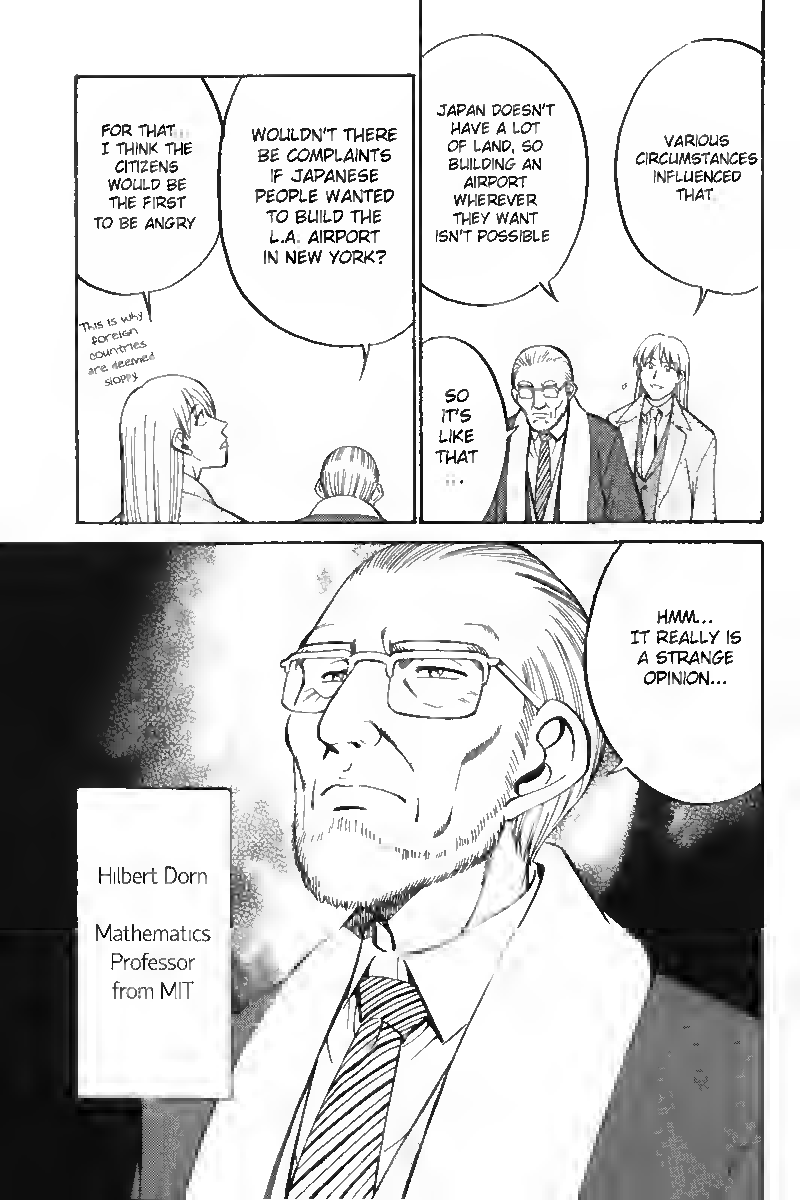
DEDEKIND CUT

MISTAKE?
UH-OH... ISN'T IT DANGEROUS.. THE QUEEN'S MOVE..

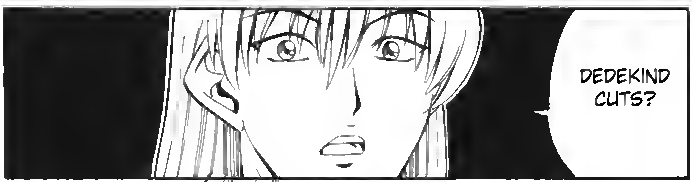

YOU'RE TOO CLEVER FOR ME.
BUT, EVENTUALLY YOU WILL SLIP UP...
WHAT DO YOU MEAN, JOHN?

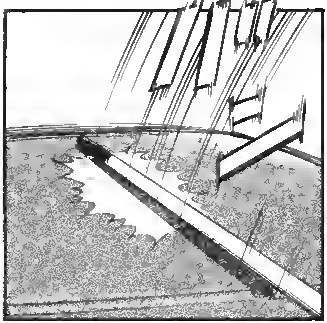
HEH HEH HEH..

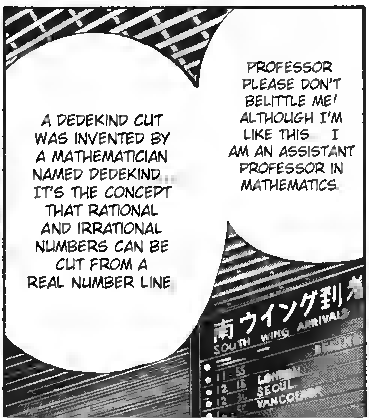
Several Years Later
Japan
IT IS AN UNFATHOMABLE MINDSET.
WHAT IS?
Narita Terminal
THIS IS SUPPOSED TO BE THE NEW TOKYO INTERNATIONAL AIRPORT.
BUT... THIS IS NOT EVEN TOKYO.

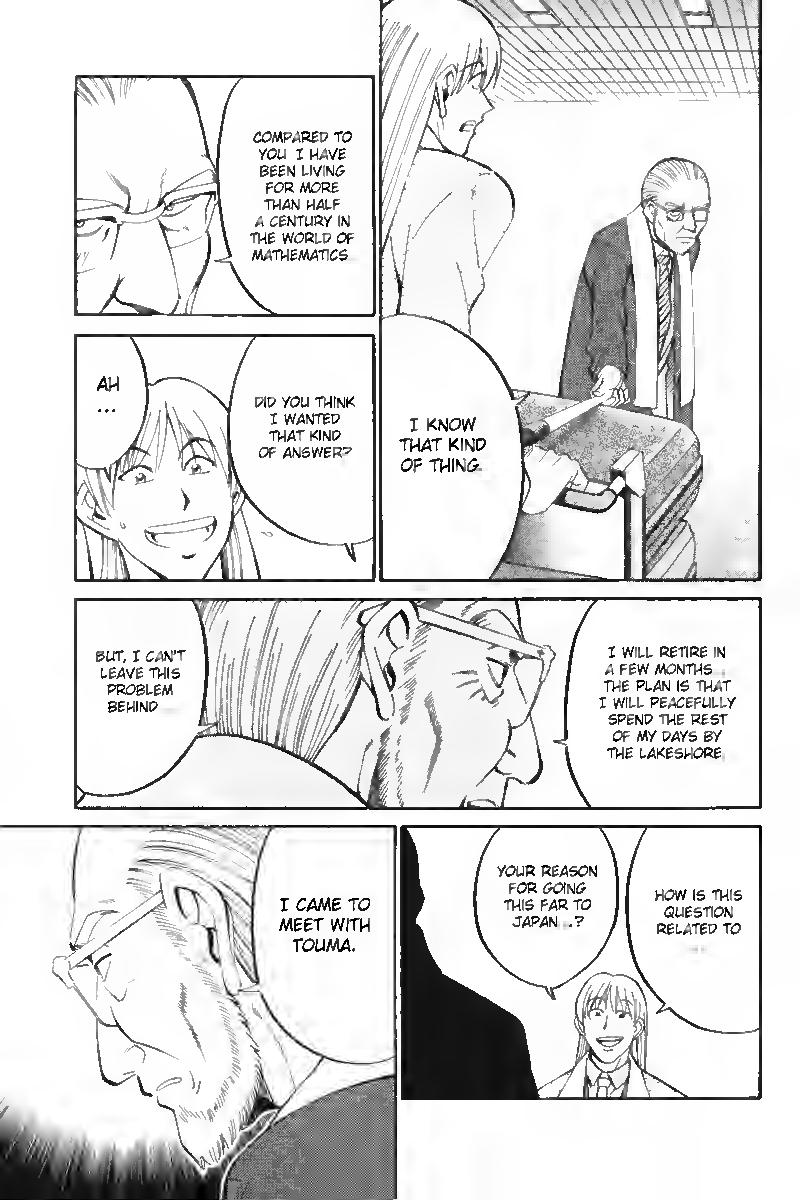

VARIOUS CIRCUMSTANCES INFLUENCED THAT.
JAPAN DOESN'T HAVE A LOT OF LAND, SO BUILDING AN AIRPORT WHEREVER THEY WANT ISN'T POSSIBLE
SO IT'S LIKE THAT...
WOULDN'T THERE BE COMPLAINTS IF JAPANESE PEOPLE WANTED TO BUILD THE L.A. AIRPORT IN NEW YORK?
FOR THAT... I THINK THE CITIZENS WOULD BE THE FIRST TO BE ANGRY
This is why foreign countries are deemed sloppy
HMM... IT REALLY IS A STRANGE OPINION...
Hilbert Dorn
Mathematics Professor from MIT

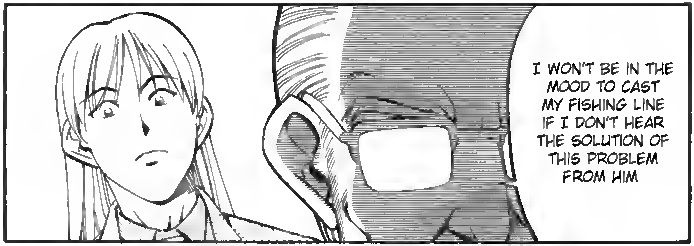
BY THE WAY, SYD...
DO YOU KNOW ABOUT DEDEKIND CUTS?

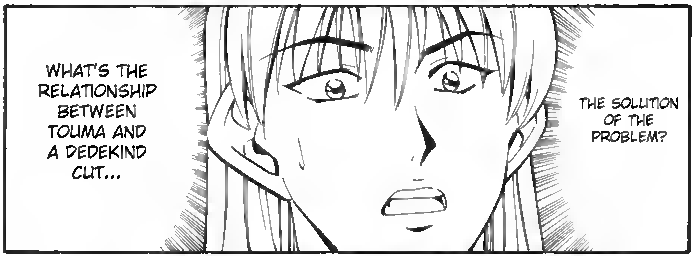

DEDEKIND CUTS?

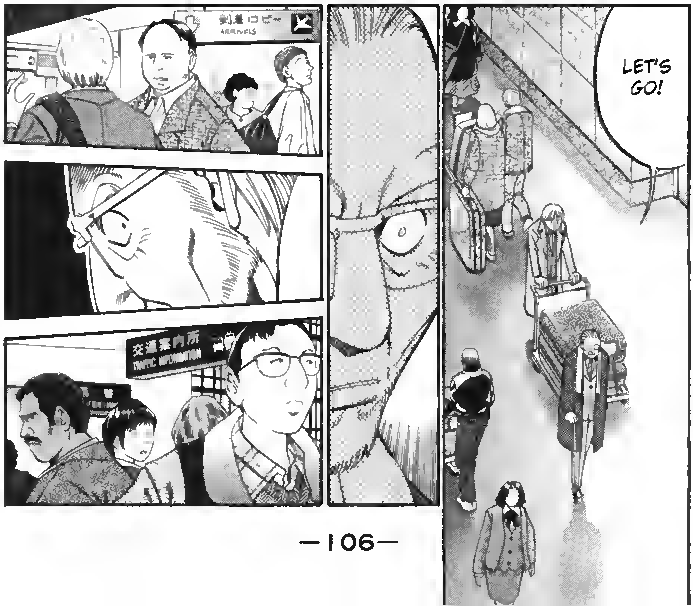



PROFESSOR PLEASE DON'T BELITTLE ME! ALTHOUGH I'M LIKE THIS I AM AN ASSISTANT PROFESSOR IN MATHEMATICS.
A DEDEKIND CUT WAS INVENTED BY A MATHEMATICIAN NAMED DEDEKIND. IT'S THE CONCEPT THAT RATIONAL AND IRRATIONAL NUMBERS CAN BE CUT FROM A REAL NUMBER LINE
南ウイング到着
SOUTH WING ARRIVAL
LONDON
SEOUL
VANCOUVER

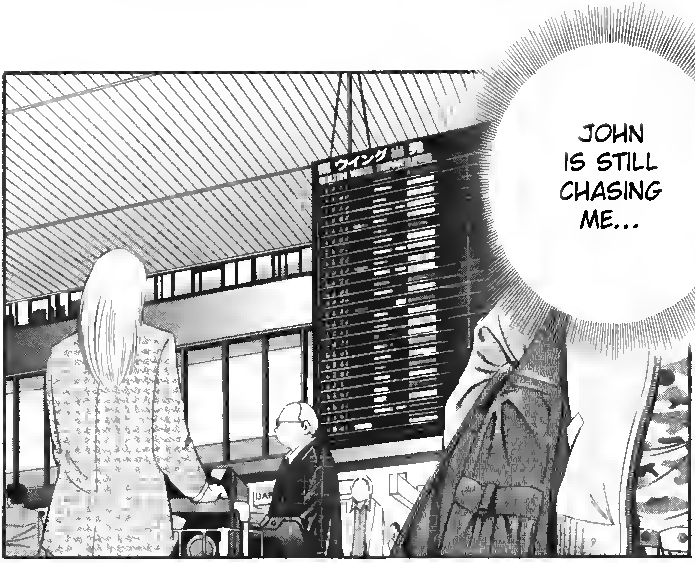

COMPARED TO YOU I HAVE BEEN LIVING FOR MORE THAN HALF A CENTURY IN THE WORLD OF MATHEMATICS
I KNOW THAT KIND OF THING
AH ...
DID YOU THINK I WANTED THAT KIND OF ANSWER?
I WILL RETIRE IN A FEW MONTHS. THE PLAN IS THAT I WILL PEACEFULLY SPEND THE REST OF MY DAYS BY THE LAKESHORE.
BUT, I CAN'T LEAVE THIS PROBLEM BEHIND.
I CAME TO MEET WITH TOUMA.
YOUR REASON FOR GOING THIS FAR TO JAPAN..?
HOW IS THIS QUESTION RELATED TO

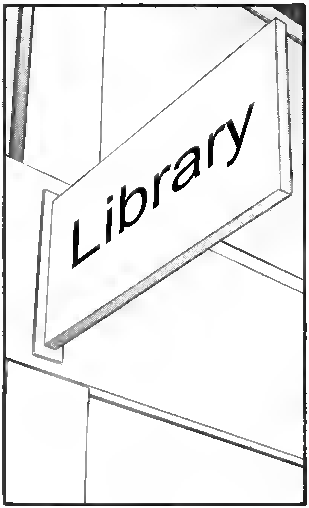

I WON'T BE IN THE MOOD TO CAST MY FISHING LINE IF I DON'T HEAR THE SOLUTION OF THIS PROBLEM FROM HIM

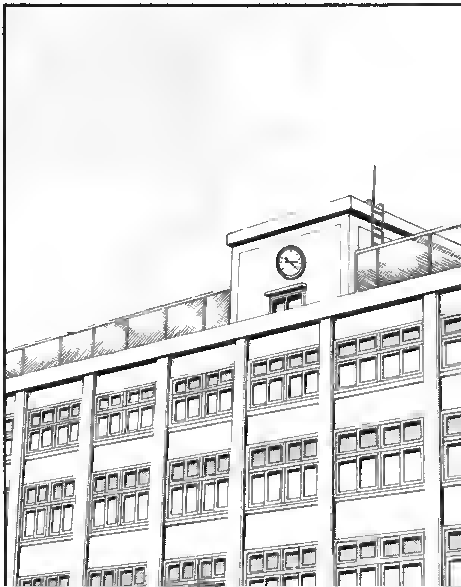

WHAT'S THE RELATIONSHIP BETWEEN TOUMA AND A DEDEKIND CUT...
THE SOLUTION OF THE PROBLEM?


到着ロビー
ARRIVALS
交通案内所
INFO. INFORMATION
LET'S GO!

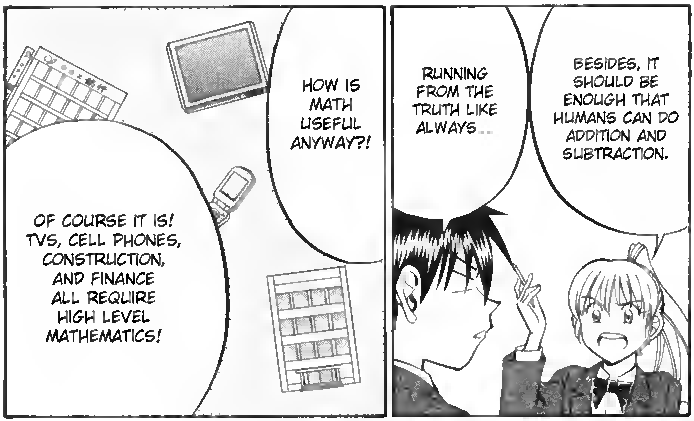
WHAT'S WRONG!?
!!
AAH ...
HE ...
HE'S HERE ...
HE ...
JOHN TOLL...
HE?

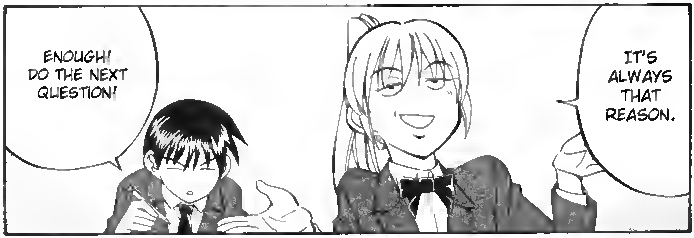

JOHN IS STILL CHASING ME...

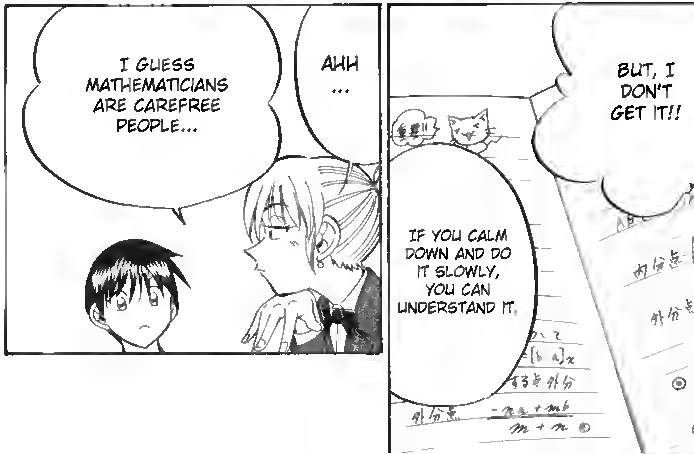

Library



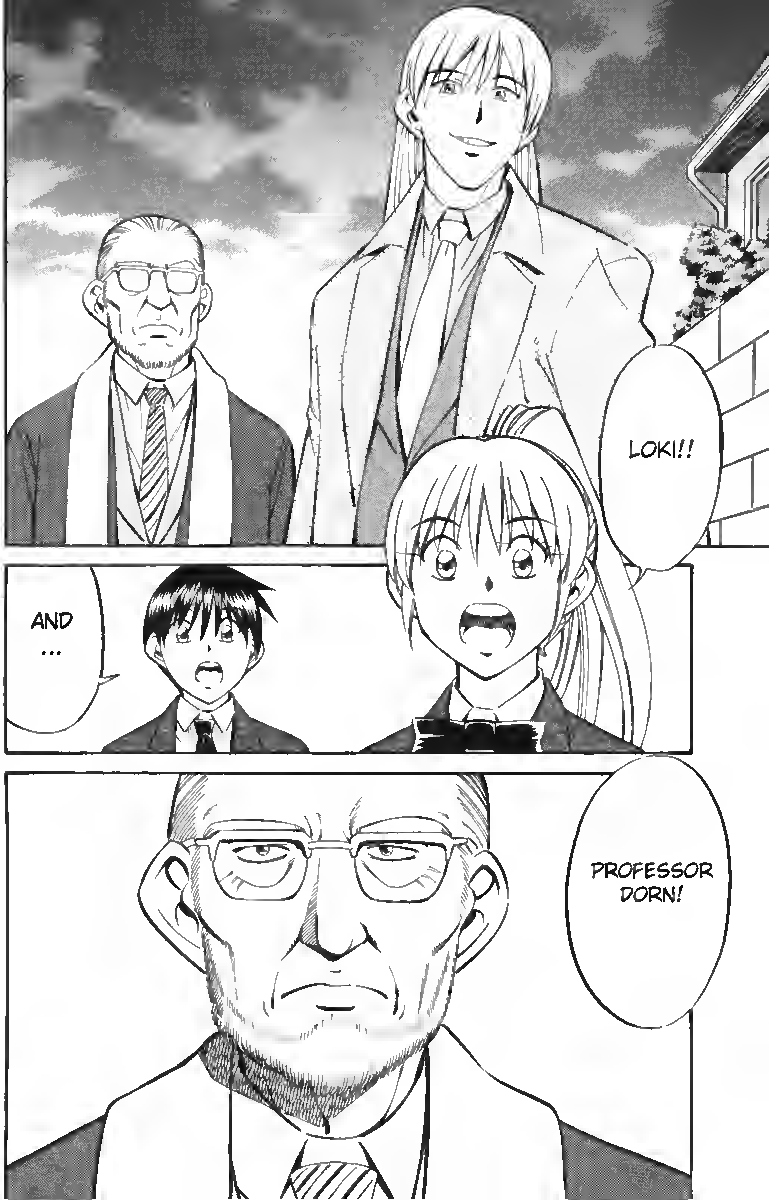
Buying a hairpin.
See a monk.
...
ARE YOU OKAY, MIZUHARA-SAN? THERE'S A YOSAKOI DANCE CIRCLING YOUR HEAD.
IT'S OKAY, I'M ALWAYS LIKE THIS BEFORE A MATH EXAM


HOW IS MATH USEFUL ANYWAY?!
OF COURSE IT IS! TVS, CELL PHONES, CONSTRUCTION, AND FINANCE ALL REQUIRE HIGH LEVEL MATHEMATICS!
RUNNING FROM THE TRUTH LIKE ALWAYS...
BESIDES, IT SHOULD BE ENOUGH THAT HUMANS CAN DO ADDITION AND SUBTRACTION.


ENOUGH! DO THE NEXT QUESTION!
IT'S ALWAYS THAT REASON.

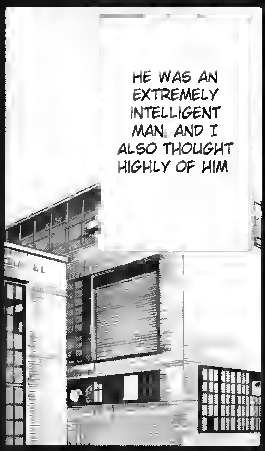

I GUESS MATHEMATICIANS ARE CAREFREE PEOPLE...
AHH ...
BUT, I DON'T GET IT!!
IF YOU CALM DOWN AND DO IT SLOWLY, YOU CAN UNDERSTAND IT.

THE MATH PROFESSOR WHO TAUGHT ME IN MIT WAS COMPOSED AND SHORT-TEMPERED...
HE WAS A VERY EMOTIONAL MAN.
NOT REALLY ...
THEN WHY ARE YOU LOOKING AWAY?
REALLY?
HEY! YOU TWO!
IT'S OKAY, YOU HAVE BEEN TRYING YOUR BEST.
AH... IF ONLY TOMORROW NEVER COMES...


LOKI!!
AND ...
PROFESSOR DORN!

DEDEKIND CUT?
CORRECT, TOUMA.
YOU SAID THE TERM ...
BUT I WONDER IF YOU STILL REMEMBER WHAT IT MEANS
AT THAT TIME YOU WERE STILL AT UNIVERSITY ...
.....

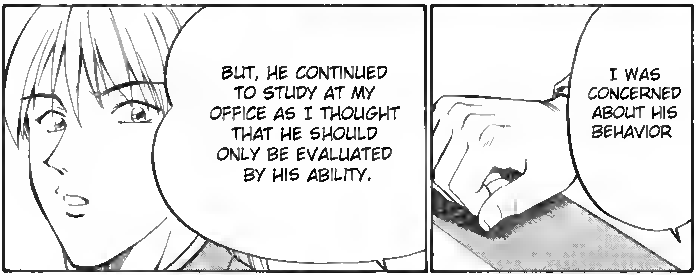
AND WERE ONE OF THE STUDENTS IN MY SEMINAR.
AT THAT TIME, I HAD AN ASSISTANT...

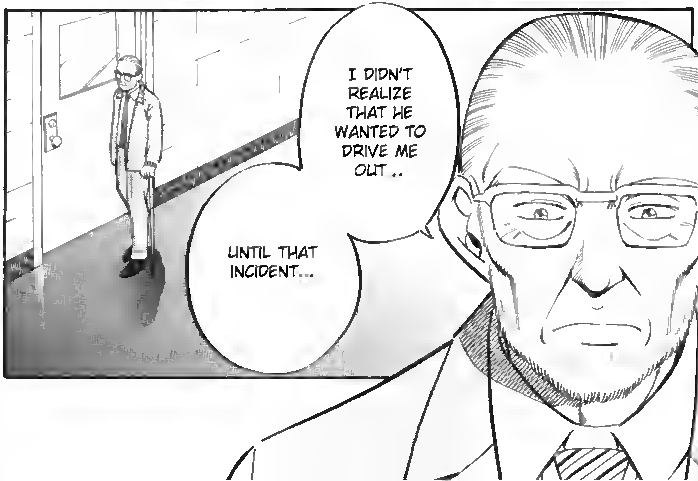

HE WAS AN EXTREMELY INTELLIGENT MAN, AND I ALSO THOUGHT HIGHLY OF HIM.

John Toll

BUT, HE WAS A LITTLE BIT ODD ...
I DON'T KNOW HOW TO DO THIS EXPANSION PROCESS...
AH?
IT'S EASY, RIGHT? JUST USE VECTOR CALCULUS
HUH? IT'S LIKE THAT?
YOU DON'T HAVE A SENSE OF MATHEMATICS, DO YOU?
WHEN I SAID ODD, I MEANT HE DIDN'T MINCE HIS WORDS.
YOU'RE NOT FIT FOR MATHEMATICS, ARE YOU?!
HE WAS A REALLY ARROGANT MAN..

AND I HEARD THAT HE WAS SEEN BEING VIOLENT.
SOMETIMES, HE WASN'T SERIOUS AND PLAYED AROUND.
HE HAD A MALICIOUS SIDE...

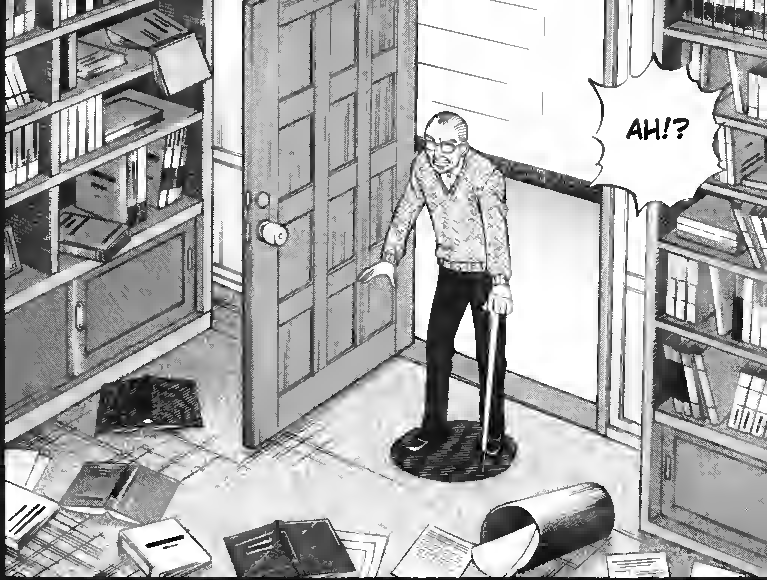

BUT, HE CONTINUED TO STUDY AT MY OFFICE AS I THOUGHT THAT HE SHOULD ONLY BE EVALUATED BY HIS ABILITY.
I WAS CONCERNED ABOUT HIS BEHAVIOR

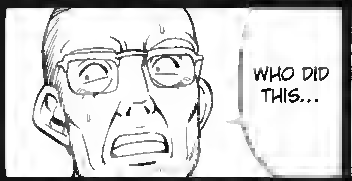

I DIDN'T REALIZE THAT HE WANTED TO DRIVE ME OUT..
UNTIL THAT INCIDENT...

CLICK
AROUND THEN, I WAS ABOUT TO PUBLISH A PAPER.
AH... NO...
JOHN TOLL... WHAT ARE YOU DOING WITH MY COMPUTER...?

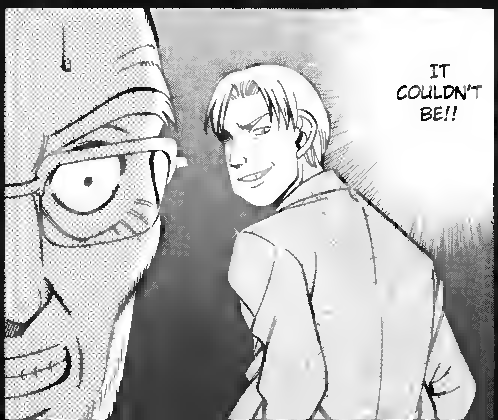
MOVE ASIDE!
AH... NO, IT'S NOT LIKE THAT...
THIS ...!
WHAT!?
IT TURNED OUT HE WAS CHANGING MY PAPER...
SO IT DIDN'T MAKE SENSE ANY MORE.
OUR RELATIONSHIP WAS BAD...
THAT'S WHY HE WANTED TO EMBARRASS ME..

WITH A TORN HEART, I ENDED UP FIRING HIM.
BUT... HIS TRUE CRUEL SIDE APPEARED AFTER THAT.
AT THAT TIME, HE HAD LEFT AND MOVED TO ANOTHER UNIVERSITY.
CLICK
CREAK
?


AH!?

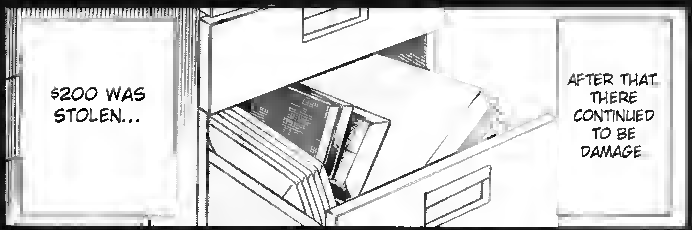

WHO DID THIS...

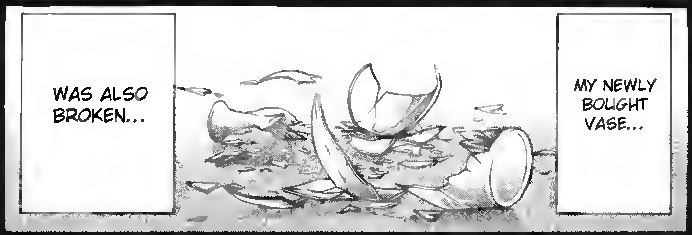
WHAT'S THIS...?

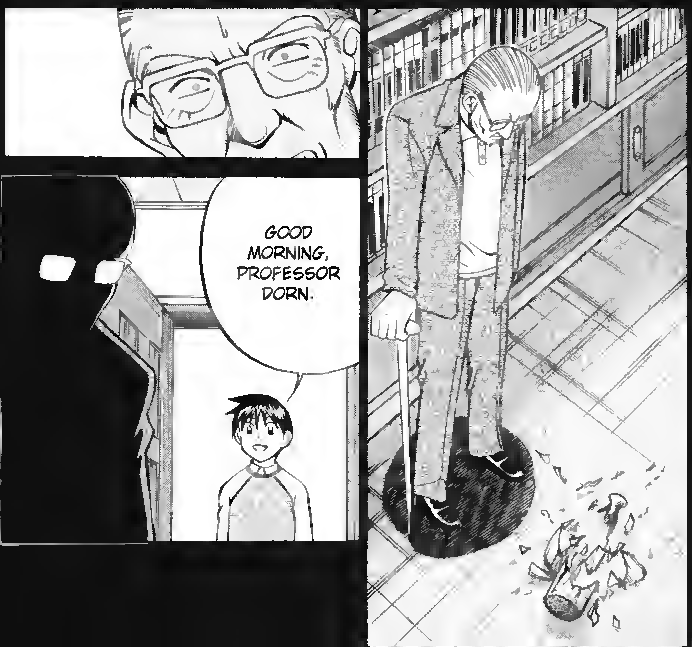

IT COULDN'T BE!!

ONCE, THE BOOK-SHELVES WERE MESSED UP
ANOTHER TIME, THINGS WERE BROKEN
THIS HAPPENED MANY TIMES
FINALLY I ASKED THE UNIVERSITY TO ALLOW ME TO CHANGE THE LOCK
SO THAT THE DOOR COULD BE LOCKED MORE SECURELY.
WITH THIS, THE ROOM WON'T BE DAMAGED ANY MORE
CLICK
CLICK

BUT, IT WAS THE SAME...
HOW COULD THIS HAPPEN!?
IMPOSSIBLE!!
HOW DID HE GET IN?
THERE WAS ALSO NO SIGN OF A BREAK-IN...
BOTH THE DOOR AND THE WINDOWS ARE LOCKED...


$200 WAS STOLEN...
AFTER THAT THERE CONTINUED TO BE DAMAGE


WAS ALSO BROKEN...
MY NEWLY BOUGHT VASE...

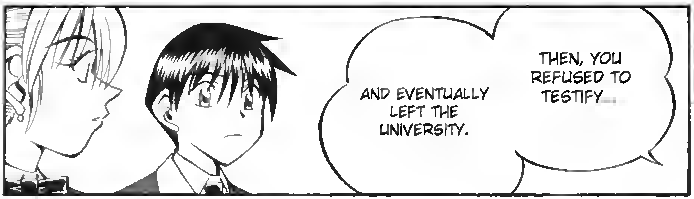

GOOD MORNING, PROFESSOR DORN.

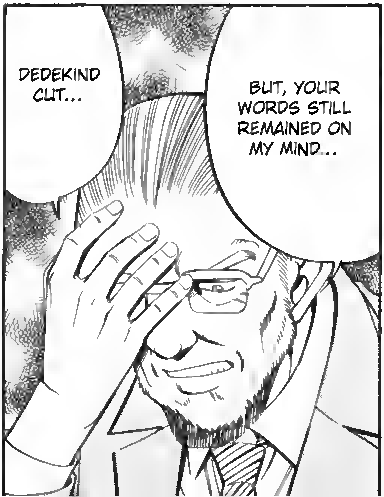
...OH, IT'S YOU...
LOOK... THIS HAPPENED AGAIN.
AH ...
THE DOOR WAS DEFINITELY LOCKED...
BUT, HOW DID HE GET IN?
DAMN! HOW CAN JOHN KEEP DOING THINGS LIKE THIS!!
HE'S LOOKING DOWN ON ME!!
DOES HE HATE ME THAT MUCH!?

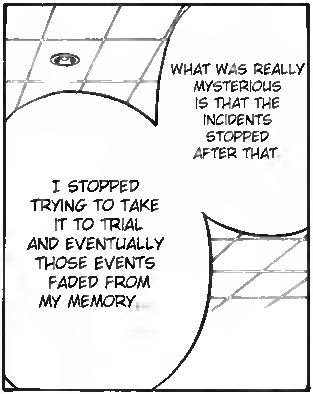
HE IS ENVIOUS OF ME.
STATUS AND FAME ARE POWERFUL IN THE ACADEMIC WORLD.
HE HAS TO PAY FOR HIS CRIMES
I WILL REPORT JOHN...
FINALLY, I HAVE DECIDED ...
GIVE EVIDENCE OF WHAT JOHN HAS DONE IN COURT.
TOUMA, BE MY WITNESS...
YOU'VE SEEN EVERYTHING.

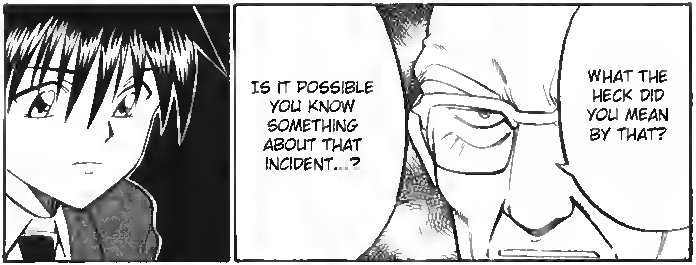
THIS IS A DEDEKIND CUT.
THE FASTER THE BETTER.. LET ME CONSULT MY LAWYER..
PROFESSOR DORN.
PROFES-SOR DORN..
IT'S LIKE A DEDEKIND CUT...
?
CUT...
DEDEKIND ...

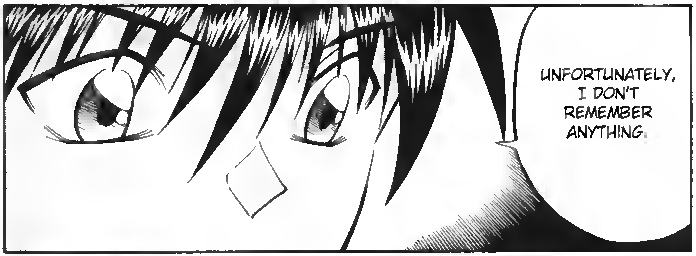
A DEDEKIND CUT...
THAT'S WHAT YOU SAID...

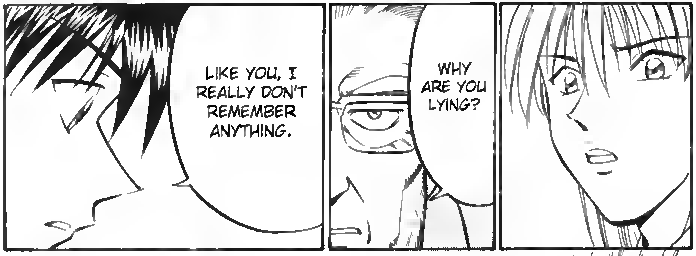

AND EVENTUALLY LEFT THE UNIVERSITY.
THEN, YOU REFUSED TO TESTIFY...

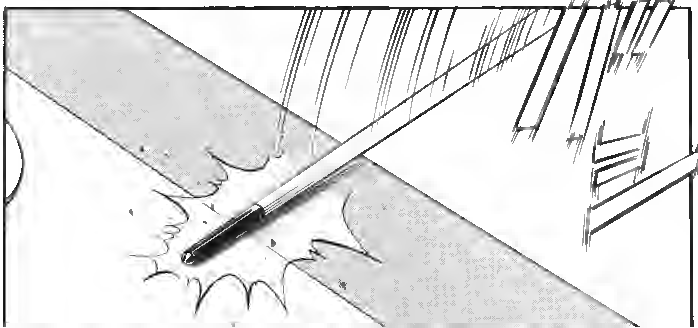

DEDEKIND CUT...
BUT, YOUR WORDS STILL REMAINED ON MY MIND...


WHAT WAS REALLY MYSTERIOUS IS THAT THE INCIDENTS STOPPED AFTER THAT.
I STOPPED TRYING TO TAKE IT TO TRIAL AND EVENTUALLY THOSE EVENTS FADED FROM MY MEMORY.


IS IT POSSIBLE YOU KNOW SOMETHING ABOUT THAT INCIDENT...?
WHAT THE HECK DID YOU MEAN BY THAT?


UNFORTUNATELY, I DON'T REMEMBER ANYTHING.


LIKE YOU, I REALLY DON'T REMEMBER ANYTHING.
WHY ARE YOU LYING?



JUST BECAUSE I'M OLD...
YOU THINK YOU CAN FOOL ME?
I'M SORRY, I NEED TO GO.
TOUMA -KUN!

ABEL PROVED THAT THERE WAS NO SOLUTION TO A QUINTIC EQUATION WHEN HE WAS 19.
BEFORE HIS DEATH AT THE AGE OF 20, GALOIS COMPLETED COMPLEX NUMBER AND GROUP THEORIES...
HAMILTON'S LIGHT THEORY, WHICH HE THOUGHT OF AT THE AGE OF 17, WAS INFLUENCED BY EINSTEIN'S THEORY OF RELATIVITY.
NEWTON
THERE ARE A LOT OF MATHEMATICIANS WHO GOT THEIR ORIGINAL IDEA WHEN THEY WERE YOUNG...
OF COURSE, GAUSS AND EULER ARE THE EXCEPTIONS.

YOU ARE STILL YOUNG. BUT YOU ARE HERE ALREADY...
BUT EVEN THOUGH YOU HAVE TIME, YOUR YOUTH IS IMPORTANT.
EVERY DAY YOU SHOULD SERIOUSLY
APPLY YOURSELF TO YOUR STUDIES
I UNDER-STAND, PROFESSOR DORN.
THIS IS MY OFFICE.

I'VE HEARD THE GOSSIP
TOUMA, RIGHT? THE BOY GENIUS ...
BUT THEN IT'S LIKE THAT. THERE ARE MANY WHO STARTED EARLY AND BECAME JUST AVERAGE WHEN THEY GOT OLD.
MY NAME IS...
HUH. . SOMETHING SMALL HAS ENTERED . I AM JOHN TOLL, THE ASSISTANT HERE

JOHN DON'T YOU KNOW HOW TO GREET PEOPLE?
I HEARD LAST NIGHT YOU WERE PLAYING AROUND IN THE CITY. WHAT ABOUT YOUR THESIS?
ALL THAT WAS A MISTAKE
I WILL LOCK MYSELF IN MY ROOM AND REFLECT ON MY INTOLERABLE NATURE.
TOUMA, IF THERE'S SOMETHING YOU DON'T UNDERSTAND JUST ASK ME.
SLAM
THAT GUY IS TOO MUCH...

ドモドモバーガー
ウーーー
WHY ARE YOU GLARING AT ME LIKE A TIGER...
OH, THAT REMINDS ME! YOU HAVE A MATH TEST TODAY, RIGHT?

I DON'T WANT TO MEET PEOPLE WHO ARE GOOD AT MATH TODAY!
And there's a person like this
I GET IT...
I don't need to hear any more
BY THE WAY, HOW'S TOUMA?
WELL, HE JUST STAYS SILENT... HE SEEMS WORRIED
AND IT SEEMS LIKE HE DOESN'T WANT TO BE INVOLVED WITH WHAT THE PROFESSOR SAID BEFORE
IT'S LIKE THAT? QUITE A PROBLEM THEN...
BY THE WAY, ABOUT WHAT THE PROFESSOR SAID..
WHAT'S A DEDEKIND CUT?
HMM...
TO EXPLAIN IT SIMPLY..

$1\ 2\ 3\ 4\ \cdots 100\ \cdots 1000\ \cdots$

$\sqrt{2} = 1.41$

$\pi = 3.141592\cdots$

$1/3 = 0.333\cdots$

IN THIS WORLD, THERE ARE MANY KINDS OF NUMBERS.

RATIONAL NUMBERS

Real numbers represented by the fraction b/a (where a b are integers)

Ex $0, 1, \frac{1}{2}, -\frac{8}{5}, \frac{1}{7}, \frac{21}{302} \cdots$ etc.

Note Rational numbers can be numbers that are terminating decimals for example 1/4 = 0 25 or 1/7 = 0 1428514285 where the decimal fraction repeats called a recurring decimal

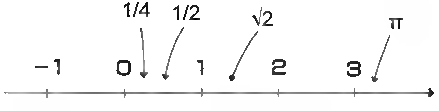
IRRATIONAL NUMBERS

Real numbers that don't come from fractions

Ex $\sqrt{2}, \sqrt{3}, \pi, e, 0.12562961\cdots$ etc.

Note Irrational numbers are decimal numbers that don't repeat like root(2) =1 41421 etc

AMONG THEM THERE ARE NUMBERS CALLED RATIONAL AND IRRATIONAL NUMBERS. COMBINED, THEY FORM THE REAL NUMBERS.



All of these real numbers will be shown on one line

AND THESE REAL NUMBERS CAN BE REPRESENTED ON A STRAIGHT LINE, AS YOU CAN SEE ON THE LEFT. THIS IS CALLED A REAL NUMBER LINE.

THEY LED TO: HOW CAN YOU DEFINE WHAT A REAL NUMBER IS?

Real

Rational

Irrational

SO... THESE RATIONAL AND IRRATIONAL NUMBERS...

0

1

FOR EXAMPLE, SEE WHAT HAPPENS IF YOU CUT THE REAL NUMBER LINE FROM 0 TO 1.

THE EXTRAORDINARY IDEA OF THIS QUESTION WAS ANSWERED BY THE MATHEMATICIAN DEDEKIND.

A

I

0

a

b

1

Largest rational number

Smallest rational number

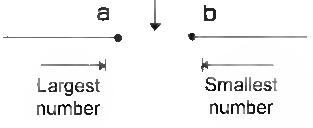
THE LARGEST RATIONAL NUMBER IN SECTION A IS a, AND THE SMALLEST RATIONAL NUMBER IN SECTION I IS b.

IS THAT KIND OF THING REALLY POSSIBLE?

IN REALITY, THIS IS IMPOSSIBLE.

THIS IS A CONTRA-DICTION.

a+b/2 is the rational number between them.



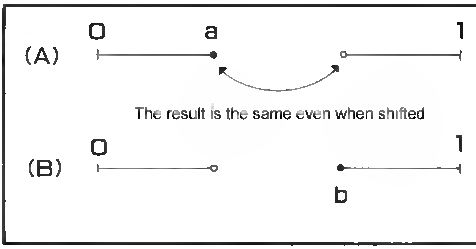
THIS IS BECAUSE BETWEEN THE LARGEST RATIONAL NUMBER a AND THE SMALLEST RATIONAL NUMBER b, EVEN THOUGH THERE SHOULDN'T BE A RATIONAL NUMBER, THE FRACTION REPRESENTED BY (a+b)/2 IS BETWEEN THEM.

The part with a, the biggest rational number

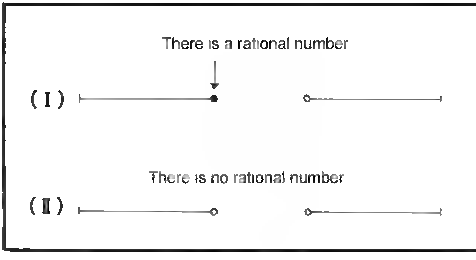
The part with b, the smallest rational number

The part with neither

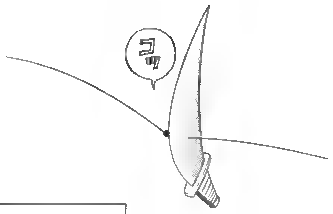
FOR THE REAL NUMBER LINE, IT CAN BE DIVIDED INTO THREE SECTIONS.



YOU COULD SAY IT'S THE SAME SITUATION FOR A AND B.

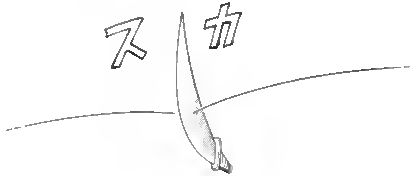


THIS IS THE SECOND TYPE OF CUT OF A REAL NUMBER LINE.



A RATIONAL NUMBER IS THE "SOMETHING" CUTTING THROUGH THE REAL NUMBER LINE.

CONSIDER AN IRRATIONAL NUMBER WHICH DOESN'T CONTACT ANYTHING.



THIS MEANS THAT THE GAPS BETWEEN RATIONAL NUMBERS HAVE IRRATIONAL NUMBERS.
THAT IS AN EASY TO UNDERSTAND EXPLANATION OF THE DEDEKIND CUT.
IF YOU AREN'T CAREFUL WHEN YOU SPEAK, PEOPLE CAN DIE!
Why?
DO YOU UNDER-STAND?
SO LOKI AND TOUMA-KUN CAN TALK ABOUT SUCH DIFFICULT CONCEPTS SO EASILY, HUH?
YOU IDIOT! WHAT DO YOU MEAN, EASILY?!

IT'S A RELENTLESS WORLD WHERE WE'RE DESPERATE TO CATCH UP.
IN FACT, IT CAN TAKE YEARS TO UNDERSTAND THESES OUTSIDE OUR OWN FIELD!
MATHEMATICS IS NOT LIMITED JUST TO THIS SMALL PART OF A FIELD. EACH FIELD IS VERY ADVANCED.
EVEN AT HIS AGE, HE PERSISTS IN KEEPING UP WITH THE LATEST RESEARCH.
IT'S THAT WAY FOR PROFESSOR DORN..
LOKI, DO YOU KNOW JOHN TOLL?
ONLY THROUGH RUMORS...
THOUGH, AS EXPECTED, IT ISN'T THE SAME AS WHEN YOU'RE YOUNG.

HE WAS A GENIUS MATHEMATICIAN WHO TRAGICALLY DIED YOUNG. IT WAS ALSO UNFORTUNATE THAT HIS ACHIEVEMENTS WEREN'T RECOGNIZED WHILE HE WAS ALIVE
AND THOUGHT OF HIMSELF AS GALOIS.
I HEARD HE WAS A VERY AGGRAVATING MAN.
GALOIS?
WHAT AN ARROGANT PERSON.
PERHAPS.. HE WANTED TO BE CALLED A YOUNG GENIUS?
WHEN I WAS YOUNG, THE ONLY THING I DID WAS STUDY FROM DAWN UNTIL DUSK..
YOU'RE JUST PLAYING AROUND AGAIN...
AND HE COULDN'T STOP ARGUING WITH THE PROFESSOR
BUT, YOU STILL DIDN'T RECIEVE THE NOBEL PRIZE FOR MATHEMATICS, THE FIELDS MEDAL

THE CONDITION FOR BEING AWARDED THE FIELDS MEDAL IS WRITING A BRILLIANT PAPER AND...
DOING IT BEFORE YOU'RE 40 YEARS OLD
IT'S A PITY YOU'VE LOST YOUR CHANCE, PROFESSOR
BUT I CAN STILL DO IT.
JUST LET ME DO THINGS MY OWN WAY.
WELL THEN, EXCUSE ME...

DESPITE HIS PERSONALITY, IT SEEMS THAT HE WAS APPOINTED AS AN ASSISTANT AFTER HE FAILED AN EXAM ONCE
WHAT A RUDE GUY!
BUT, HOW...
...THAT KIND OF PERSON...
REALLY... WHAT DID HE DO?
HOW DID HE ENTER A LOCKED PROFESSOR'S OFFICE!?

YOU KNOW WHAT I THOUGHT ABOUT...
WHAT PROFESSOR DORN SAID WHEN HE FIRST MET ME?
"IN THIS WORLD, PEOPLE THINK MATHEMATICIANS ARE ECCENTRIC I THINK SO TOO"
"THAT'S SOMETHING YOU SHOULD BE AWARE OF."

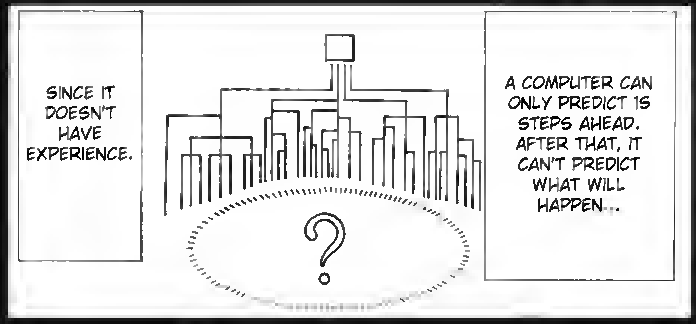
"I ACCEPT YOUR ABILITIES AND YOUR ECCENTRICITIES."
"BUT MAKE AN EFFORT TO BE MORE THAN JUST A WEIRD PERSON."
IT WAS LIKE THAT.

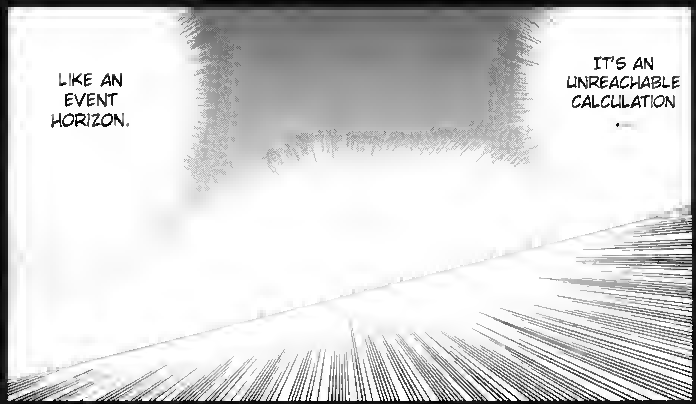
WHO WOULDN'T BE ANGRY WHEN ATTACKED DIRECTLY LIKE THAT?
TOUMA, DO YOU REMEMBER THE CHESS MATCH BETWEEN A COMPUTER AND A HUMAN WHERE THE HUMAN LOST?
ACK!
THAT'S IT, THEN!
OK, I'LL MOVE IT HERE.
DEEP BLUE WAS A STATE OF THE ART SUPERCOMPUTER WITH 32 NODES.
IT HAD THE ABILITY TO PREDICT TWO HUNDRED MILLION POSITIONS PER SECOND
IT WAS IN 1997, WHEN THE WORLD CHESS CHAMPION, KASPAROV, PLAYED AGAINST THE SUPERCOMPUTER DEEP BLUE...
I REMEMBER!

IT WASN'T A PURE WIN BECAUSE THE PROGRAM WAS CHANGED IN THE MIDDLE OF THE MATCH.
THIS COMPUTER BEAT A CHESS WORLD CHAMPION.
STILL, IT WAS A HISTORIC EVENT.
IBM

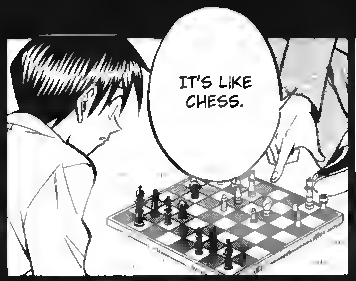
IF YOU WERE WALKING ON A BEACH AND REALIZED THAT YOU HAD LOST YOUR WALLET.
THERE WAS DISCUSSION THEN COMPARING THE DIFFERENCE ABOUT HOW A HUMAN THINKS VERSUS A COMPUTER.
WHAT WOULD YOU DO?
¥¥¥
100

TO SUM IT UP, THEY WOULD ACT BASED ON THEIR EXPERIENCE.
IN THE CASE OF A HUMAN, THEY WOULD RETRACE THEIR FOOTSTEPS TO LOOK FOR THE WALLET.
WITH ITS POWERFUL CALCULATION, IT THINKS THAT A BRUTE FORCE APPROACH SHOULD BE USED FOR THIS WIDE SCOPE.
BUT, A COMPUTER WOULD DIG UP THE ENTIRE BEACH TO FIND THE WALLET.
HAS ONE WEAKNESS.
BUT, THE COMPUTER'S METHOD...


SINCE IT DOESN'T HAVE EXPERIENCE.
A COMPUTER CAN ONLY PREDICT 15 STEPS AHEAD. AFTER THAT, IT CAN'T PREDICT WHAT WILL HAPPEN...
?


LIKE AN EVENT HORIZON.
IT'S AN UNREACHABLE CALCULATION.

SOMEDAY YOU WILL DEFINITELY MAKE A MISTAKE.
THEREFORE...

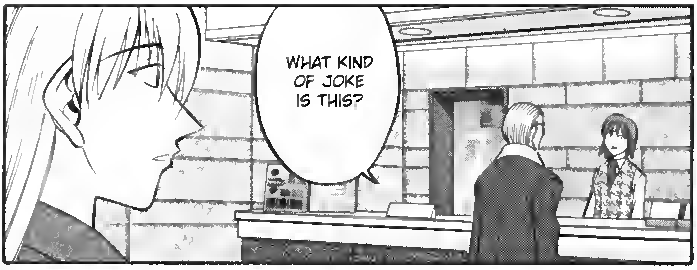

IT'S LIKE CHESS.

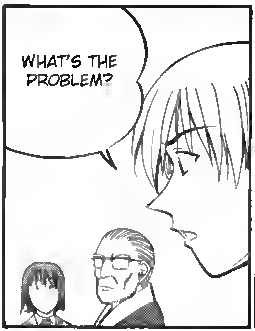
BE CAREFUL, TOUMA

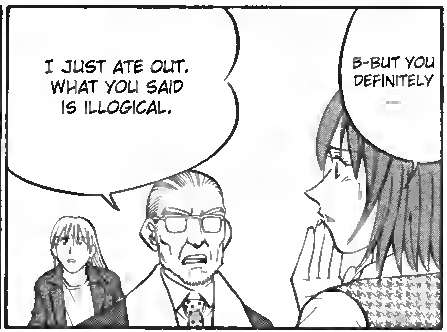
NO MATTER HOW FAST YOU CAN THINK...
THERE IS A LIMIT TO HOW MUCH YOU CAN WIN

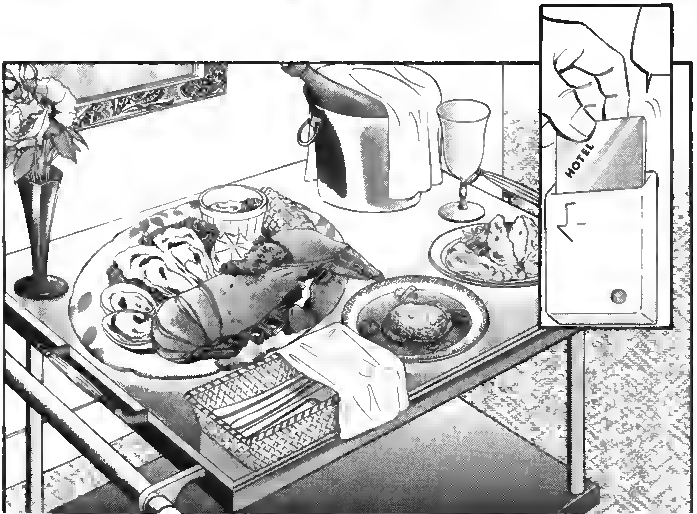
DING

HOTEL


WHAT KIND OF JOKE IS THIS?


WHAT'S THE PROBLEM?

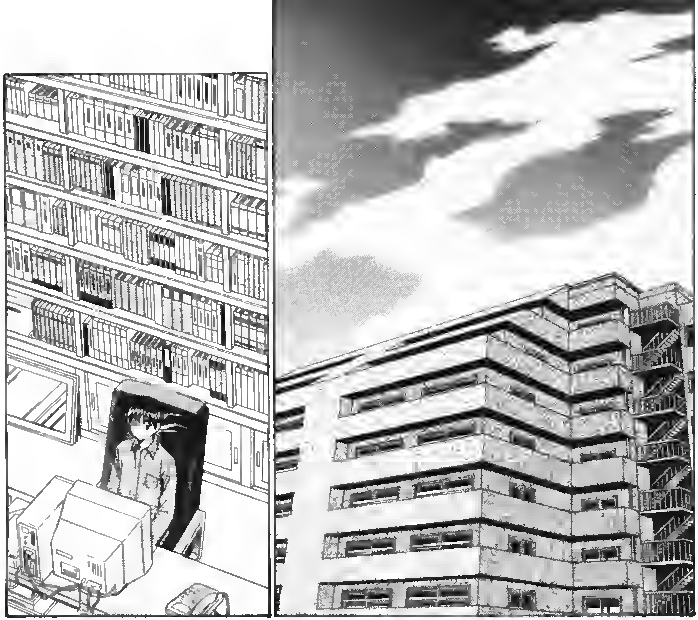

I JUST ATE OUT. WHAT YOU SAID IS ILLOGICAL.
B-BUT YOU DEFINITELY


HOTEL

I DIDN'T ORDER IT.
BUT I WENT OUT TO EAT.
IT'S ROOM SERVICE.
WHY? WHAT IS THIS? IT LOOKS DELICIOUS THOUGH, DOESN'T IT?
WELL... IT'S HERE...
This is good.
MAYBE THE HOTEL STAFF MISHEARD THE ROOM NUMBER.
HUH? WHAT'S THAT?

THIS INCISION... IT'S NEW.
IT'S A J...?
J...
ARE YOU ALRIGHT!?
HIM ...
IT'S JOHN TOLL...

JOHN ...
HE WANTS TO TAKE REVENGE...
HE WILL CHASE ME...
TO THE ENDS OF THE EARTH!!

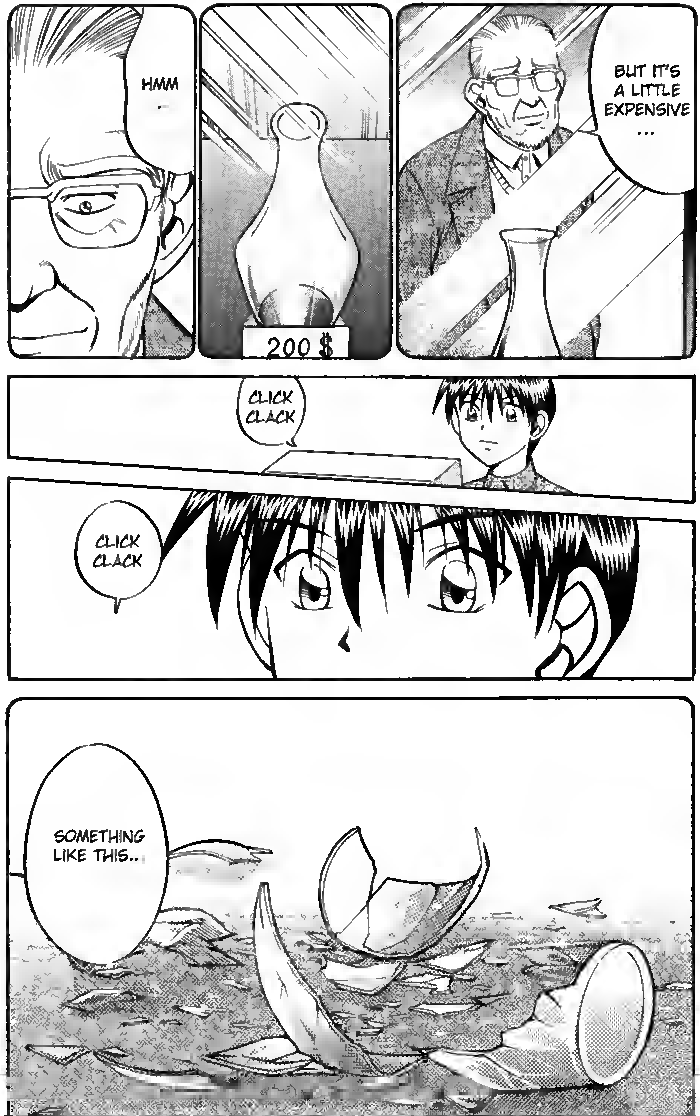


CLICK CLACK

THESE ARE ALL MY ACHIEVEMENTS SO FAR
LOOK AT THESE

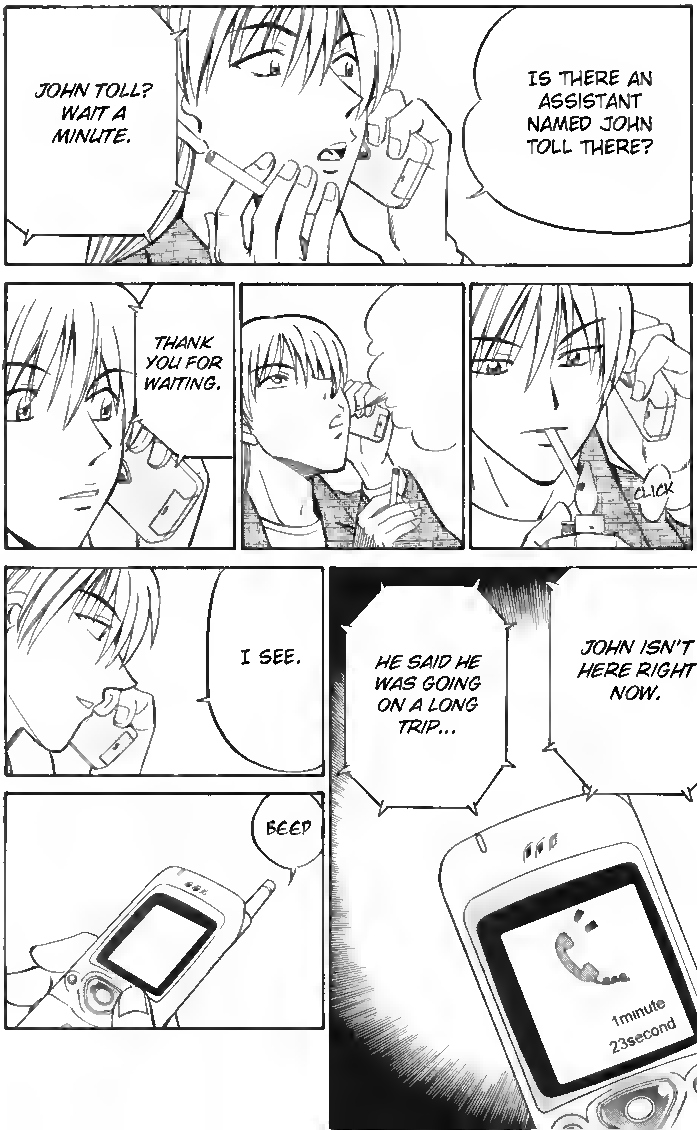
BACK THEN, I CONTINUED RESEARCHING WITHOUT SLEEP
EVEN THOUGH THESE DAYS I CAN'T DO WHAT I DID THEN..
THIS IS THE CORE OF MY LIFE.
YOU HAVE TO HAVE PRIDE PLEASE LIVE YOUR LIFE WITH DILIGENCE
CLICK CLACK
DAMN! HOW AUDACIOUS!

I KNOW IT! THIS MUST BE JOHN TOLL'S DOING!
BUT, HOW COULD HE ENTER..
THIS LOCKED ROOM..?
LOOK AT THAT VASE...
WHAT A BEALITIFUL SHAPE...
200 $


HMM
200 $
BUT IT'S A LITTLE EXPENSIVE ...
CLICK CLACK
CLICK CLACK
SOMETHING LIKE THIS...

HE HAS TO PAY FOR HIS CRIMES
THE PRECIOUS VASE THAT I BOUGHT...
TOUMA, CAN YOU BE THE WITNESS?

BRIIING
BRIIING
CLICK
HELLO, THIS IS PROFESSOR TAYLOR'S OFFICE AT STANFORD UNIVERSITY.
BRIIING
BRIIING
総合病院


JOHN TOLL? WAIT A MINUTE.
IS THERE AN ASSISTANT NAMED JOHN TOLL THERE?
THANK YOU FOR WAITING.
CLICK
I SEE.
HE SAID HE WAS GOING ON A LONG TRIP...
JOHN ISN'T HERE RIGHT NOW.
BEEP
1minute
23second

CLICK CLACK
WHY DON'T YOU WANT TO TESTIFY?
WHAT DOES DEDEKIND CUT MEAN?
EXPLAIN... WHY DON'T YOU ANSWER ME?

THE DEDEKIND CUT IS...
BRIIING
DO YOU KNOW SOMETHING ABOUT THIS...?
RRRR
RRRR...
YES, HELLO ...?
TOUMA -KUN!?
MIZUHARA -SAN? WHAT HAPPENED?

TELEPHONE
I GOT A CALL THAT PROFESSOR DORN HAD COLLAPSED.
IT'S TERRIBLE!
I'M AT THE HOSPITAL RIGHT NOW.
AT THE HOTEL WHERE THE PROFESSOR WAS STAYING, ROOM SERVICE CAME THAT HE DIDN'T ASK FOR.
THEY FOUND A "J" CARVED INTO THE SIDE TABLE.
HE SUDDENLY FELT WEAK...
WHERE IS LOKI?
STILL OUTSIDE... HE SAID HE NEEDED TO CALL TO MAKE SURE OF SOMETHING.
THE DOCTOR SAID HIS LIFE ISN'T IN DANGER.

HE ENTERED A LOCKED ROOM AGAIN...
IS THIS REALLY BECAUSE OF JOHN?
TOUMA-KUN, DO YOU KNOW SOMETHING ABOUT THIS!?
MIZUHARA -SAN, PLEASE TELL ME THE NAME OF THE HOSPITAL.
I WILL BE THERE SOON.
HOW COULD SOMEONE ENTER A LOCKED ROOM!?
WHO AND FOR WHAT REASON!?
AND WHAT IS THE MEANING OF DEDEKIND CUT!?

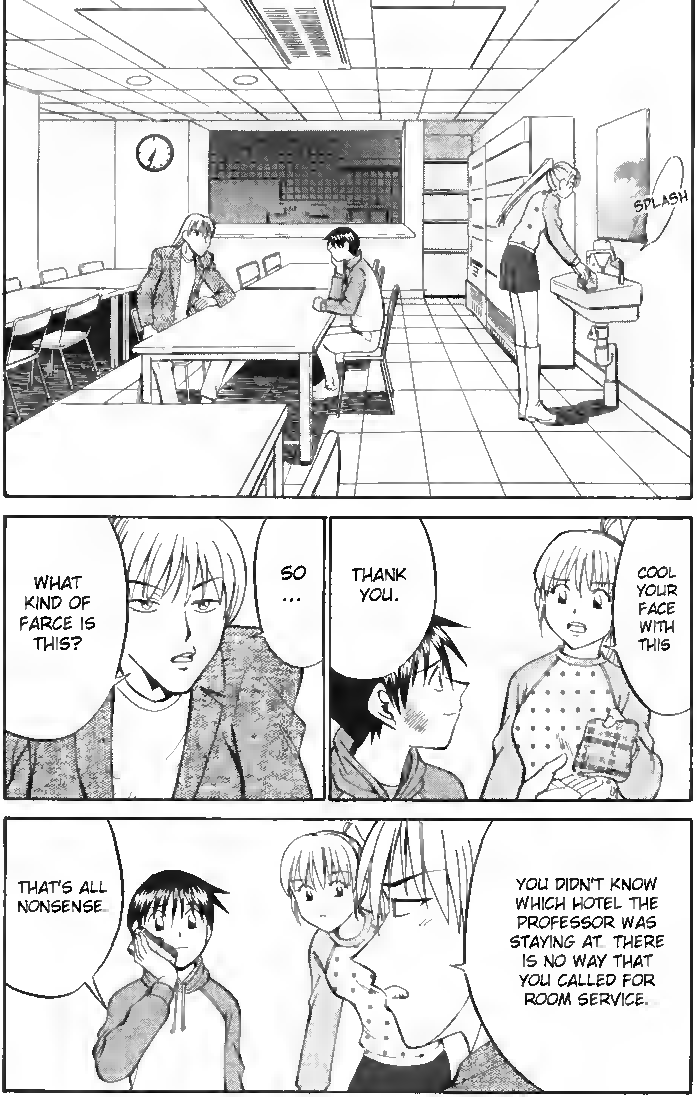
Q. E. D.

WOW, WHY ARE YOU ALL HERE?
DON'T WORRY, ACCORDING TO THE DOCTOR, I CAN LEAVE THE HOSPITAL TOMORROW.
I'M REALLY SORRY.
PROFESSOR DORN
?

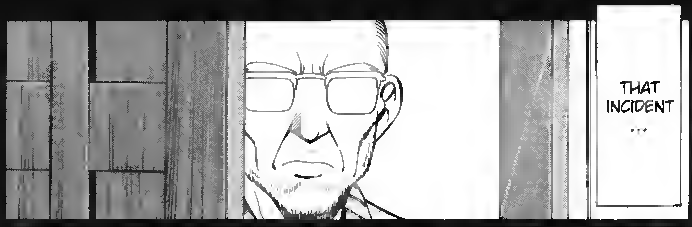
JOHN TOLL HASN'T DONE ANYTHING.
I WAS THE CULPRIT...
I MADE A DUPLICATE KEY.
TO ENTER THE LOCKED OFFICE...
TH-THAT WAS YOU...?
THAT'S RIGHT.
HUH!?
!?
THE ONE WHO MESSED UP PROFESSOR'S ROOM, THE ONE WHO BROKE THE VASE...
AND THE ONE WHO CALLED ROOM SERVICE... THAT WAS ALL ME.

BUT, WHY...?
BECAUSE I WAS ENVIOUS OF YOUR STATUS AND ACHIEVEMENTS.
I DID ALL THIS BECAUSE I WAS ENVIOUS OF YOU...
.....
BECAUSE OF THAT, I'M SORRY.

TOUMA-KUN!! ARE YOU ALRIGHT!?
GET OUT!!
ALL OF YOU, LEAVE THIS ROOM!! YOU'RE SO SHAMELESS!!

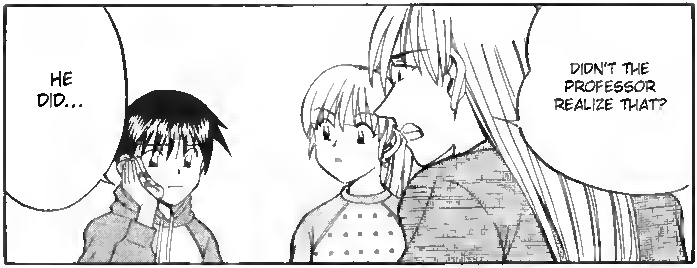

SPLASH
WHAT KIND OF FARCE IS THIS?
SO ...
THANK YOU.
COOL YOUR FACE WITH THIS
THAT'S ALL NONSENSE.
YOU DIDN'T KNOW WHICH HOTEL THE PROFESSOR WAS STAYING AT. THERE IS NO WAY THAT YOU CALLED FOR ROOM SERVICE.

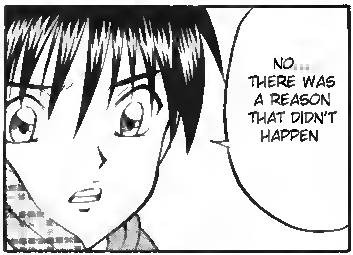
YES.
DO YOU THINK HE WILL BELIEVE YOUR RIDICULOUS STORY?
WHAT DO YOU MEAN?
WITH THAT, THIS MATTER WILL BE SOLVED...
I'M SURE OF IT.
LOKI ...
WE CAN END THIS BY ASKING FOR A COURT ORDER SO HE CAN'T GO NEAR THE PROFESSOR..
THAT WAS DONE BY JOHN TOLL, RIGHT? WHY ARE YOU PROTECTING HIM?
EVERYTHING I TELL YOU AFTER THIS...
I WANT YOU TO REMEMBER ...
AND MIZUHARA -SAN AS WELL..

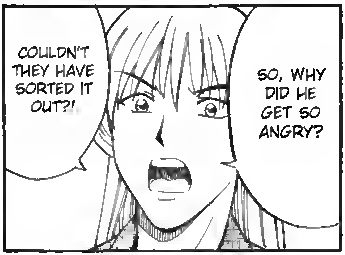


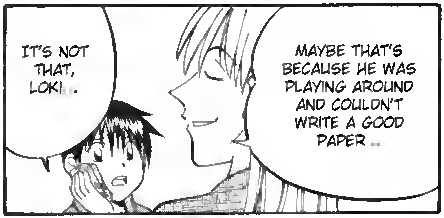
WHAT HAPPENED WAS...

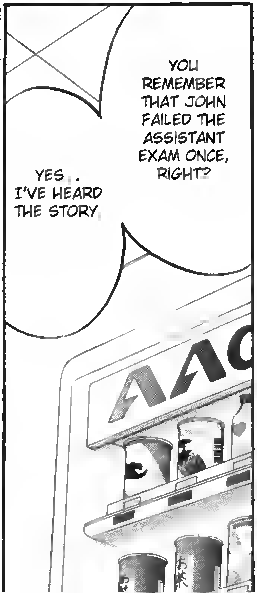
NOTHING CAN BE DONE... LET ME CORRECT IT.
THIS IS BAD! THIS WILL BE PUBLISHED SOON.
HE CORRECTED IT FOR THE PROFESSOR ...
JOHN! WHAT ARE YOU DOING!?
AH... NO, THIS IS..
AND THAT'S WHEN THE PROFESSOR SAW IT.

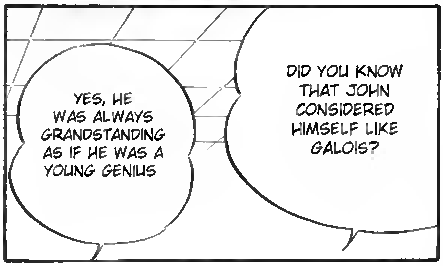

HE DID...
DIDN'T THE PROFESSOR REALIZE THAT?

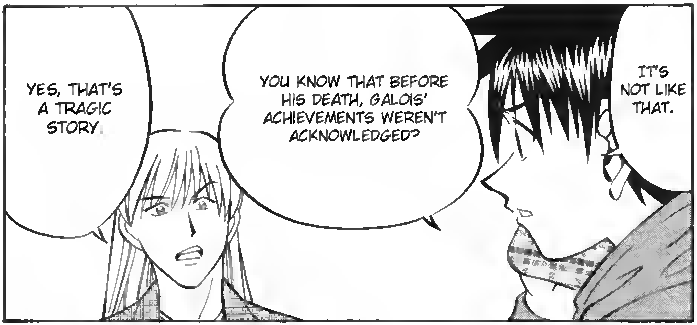

NO... THERE WAS A REASON THAT DIDN'T HAPPEN

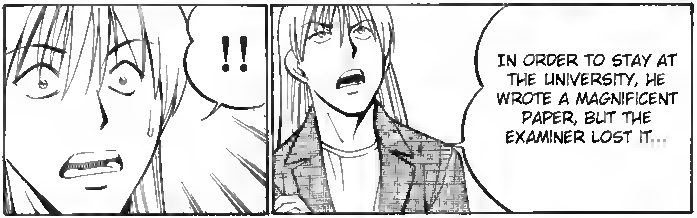

COULDN'T THEY HAVE SORTED IT OUT?!
SO, WHY DID HE GET SO ANGRY?

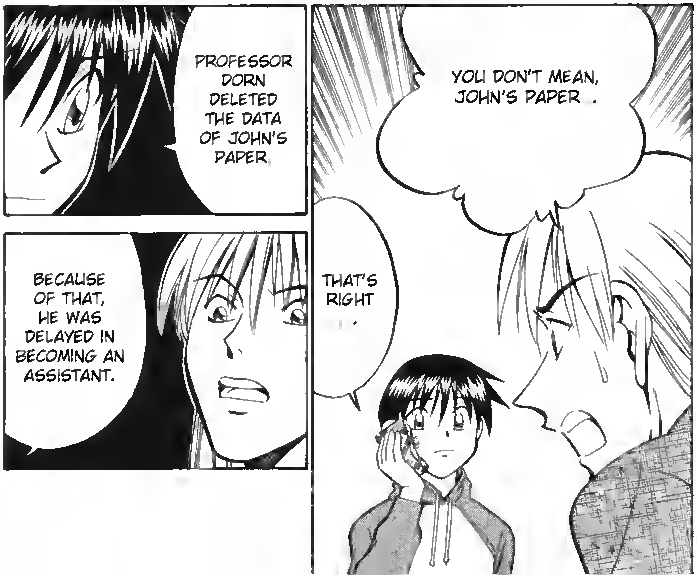

IT'S NOT THAT, LOKI...
MAYBE THAT'S BECAUSE HE WAS PLAYING AROUND AND COULDN'T WRITE A GOOD PAPER...


YOU REMEMBER THAT JOHN FAILED THE ASSISTANT EXAM ONCE, RIGHT?
YES. I'VE HEARD THE STORY.


YES, HE WAS ALWAYS GRANDSTANDING AS IF HE WAS A YOUNG GENIUS
DID YOU KNOW THAT JOHN CONSIDERED HIMSELF LIKE GALOIS?


IT'S NOT LIKE THAT.
YOU KNOW THAT BEFORE HIS DEATH, GALOIS' ACHIEVEMENTS WEREN'T ACKNOWLEDGED?
YES, THAT'S A TRAGIC STORY.


IN ORDER TO STAY AT THE UNIVERSITY, HE WROTE A MAGNIFICENT PAPER, BUT THE EXAMINER LOST IT...
!!


YOU DON'T MEAN, JOHN'S PAPER .
PROFESSOR DORN DELETED THE DATA OF JOHN'S PAPER.
THAT'S RIGHT .
BECAUSE OF THAT, HE WAS DELAYED IN BECOMING AN ASSISTANT.

DURING THE PAPER CORRECTION INCIDENT...

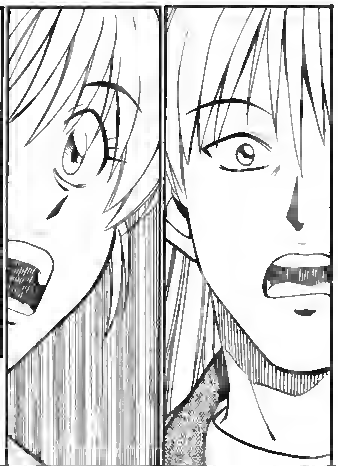
A FEELING OF INFERIORITY APPEARED IN THE PROFESSOR'S MIND...

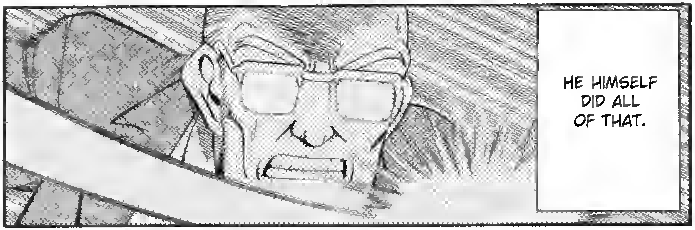
THAT ANXIETY REACHED ITS PEAK...

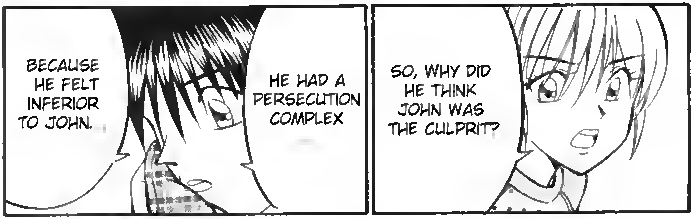
AND EXPLODED!

EVERY TIME HIS EMOTIONS EXPLODED...
HE ALWAYS USED HIS CANE...
Physics

SO, THE PERSON WHO ENTERED THE LOCKED ROOM AND MADE IT A MESS...
THAT'S RIGHT ...




HE HIMSELF DID ALL OF THAT.


BECAUSE HE FELT INFERIOR TO JOHN.
HE HAD A PERSECUTION COMPLEX
SO, WHY DID HE THINK JOHN WAS THE CULPRIT?

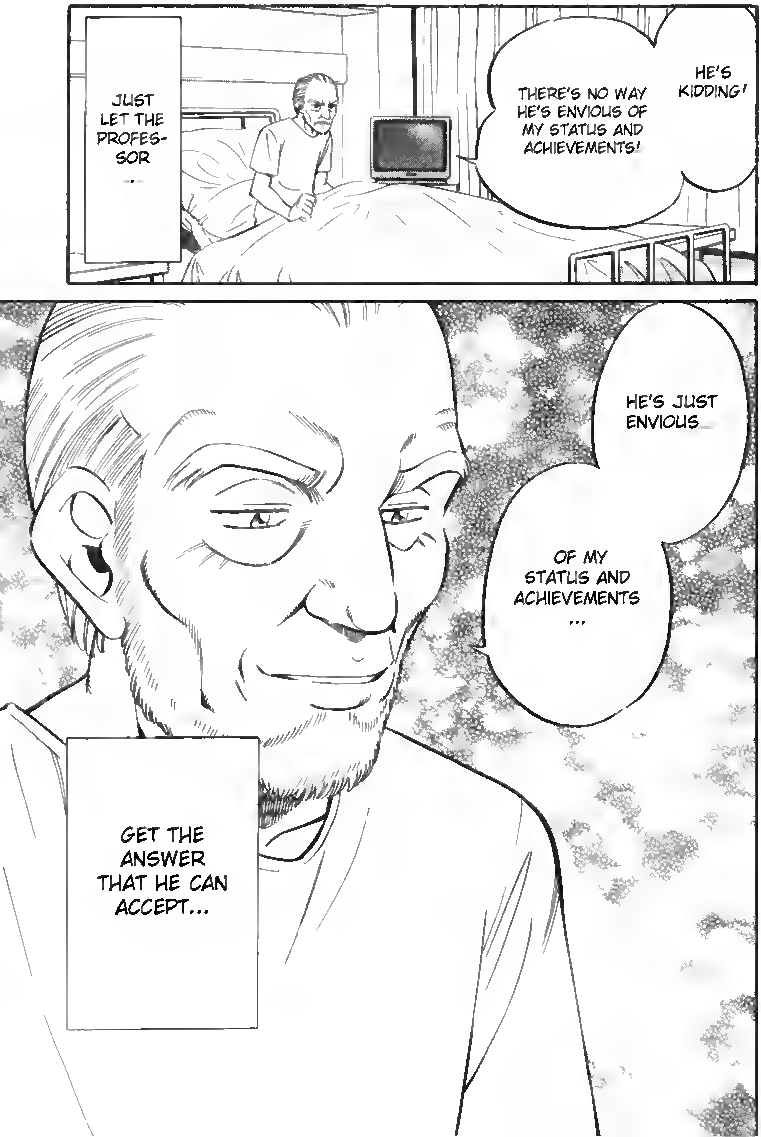
HE DIDN'T REMEMBER WHAT HE HAD DONE..
WHAT HAPPENED !?
THEN, EVERYTIME HIS ANGER SUBSIDED.
BUT THEN HE FORGOT HE DID IT..
HE HAD TO BE THE ONE WHO CARVED THE "J" AND CALLED ROOM SERVICE..

HE SPENT THE MONEY HIMSELF TO BUY THAT VASE...
200
AND THAT TIME WHEN HE LOST MONEY...
BUT, EVERY TIME...
JOHN! IT MUST BE JOHN!!
ALL OF THAT, COMBINED WITH HIS PERSECUTION COMPLEX AND OLD AGE MADE HIM FLUSTERED...
AND CREATED A MEMORY DISORDER...
...
BUT ...
HE SHOULD HAVE FORGOTTEN ABOUT THIS...

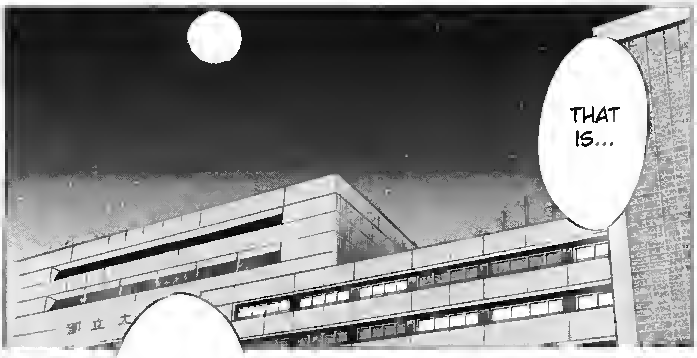
AND YET, BECAUSE I SAID AN INSIGNIFICANT THING...
IT'S A DEDEKIND CUT.
THE PROFESSOR'S MEMORY BECAME FRAGMENTED.
IT WAS LIKE THERE WERE GAPS IN BETWEEN.
BUT THOSE WORDS WERE ETCHED INTO THE PROFESSOR'S MIND BECAUSE HE IS A MATHEMATICIAN
DEDEKIND CUT?

HE SHOULD HAVE FORGOTTEN ABOUT THE INCIDENT.
DEDEKIND CUT...
COME TO THINK OF IT...
EVERY TIME HE REMEMBERED THAT WORD, IT REFRESHED HIS MEMORY.
THAT'S MY FAULT.
THEN, WHY DIDN'T YOU TELL PROFESSOR THE TRUTH?
I DID.
I TOLD HIM MANY TIMES...
BUT, HE FORGOT ABOUT IT...

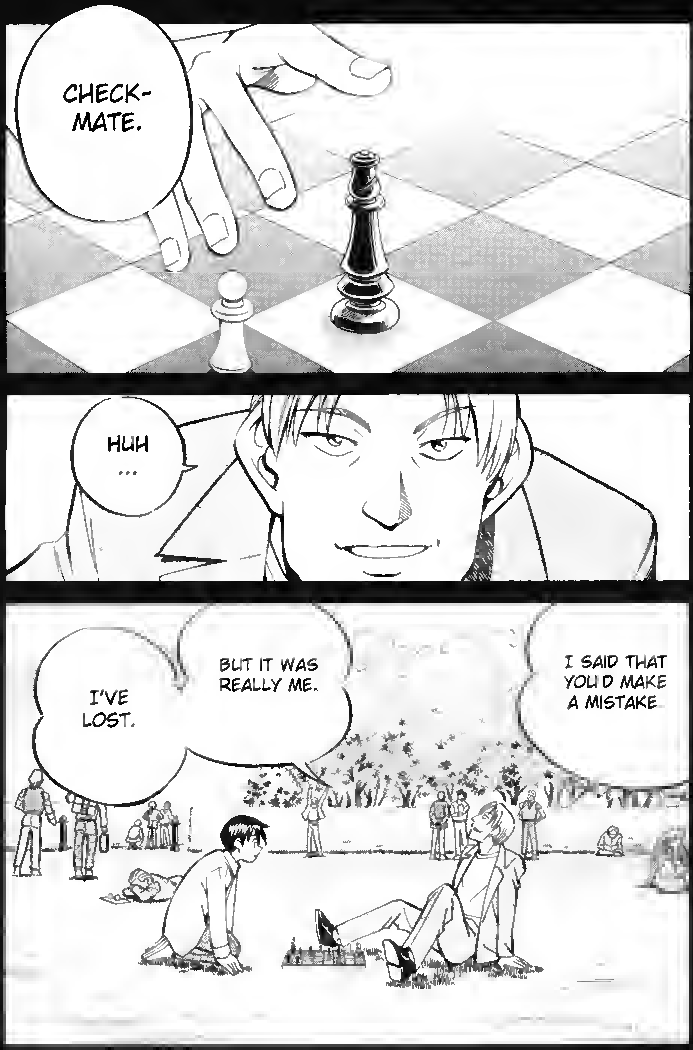
WHY DON'T YOU WANT TO BE A WITNESS?
EVEN THOUGH I EXPLAINED A LOT OF TIMES...
A DEDEKIND CUT IS ..
HE REJECTED THAT ANSWER AND ERASED IT FROM HIS MEMORY.
WHAT HAPPENED?
THAT'S ...
BUT, I THINK IT'S ALRIGHT NOW. .
THE ONLY THINGS LEFT WERE...
THE ONLY THINGS LEFT WERE . . THE FAINT MEMORY OF JOHN'S INCIDENT AND THE WORDS "DEDEKIND CUT" ..


JUST LET THE PROFES-SOR ...
THERE'S NO WAY HE'S ENVIOUS OF MY STATUS AND ACHIEVEMENTS!
HE'S KIDDING!
HE'S JUST ENVIOUS...
OF MY STATUS AND ACHIEVEMENTS ...
GET THE ANSWER THAT HE CAN ACCEPT...

ALL OF THIS STARTED WITH MY MISTAKE .
SO ..THAT'S WHY YOU ADMITTED THAT YOU'RE THE CULPRIT ..?


THAT IS...

THE END OF MY DEMON-STRATION.

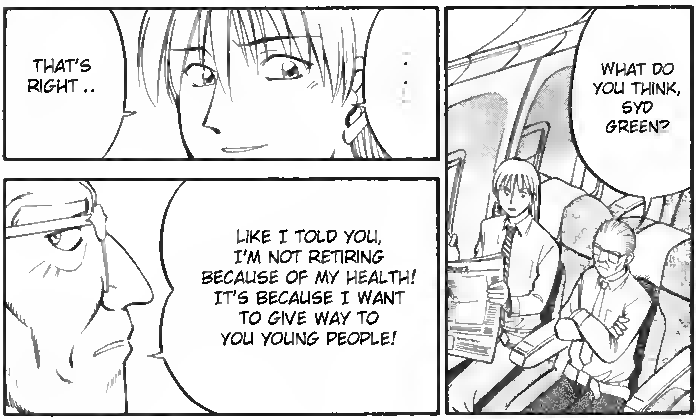

CHECK-MATE.
HUH ...
I'VE LOST.
BUT IT WAS REALLY ME.
I SAID THAT YOU'D MAKE A MISTAKE

WELL.. I HAVE TO LEAVE SOON...
I MIGHT MISS MY FLIGHT.
JOHN. WHY ARE YOU DOING THIS?
MAYBE IF YOU DISCUSS IT WITH PROFESSOR DORN ONE MORE TIME YOU WON'T HAVE TO LEAVE THE UNIVERSITY?
STUPID!
TALKING TO HIM DOESN'T SOLVE ANYTHING. IT JUST MAKES THE PROBLEM WORSE!
BESIDES, I DECIDED TO MOVE TO A DIFFERENT PROFESSOR'S OFFICE
IF I'M HERE, IT WILL JUST HURT THE PROFESSOR.

YOU DON'T HAVE A GRUDGE?
HE'S A PERSON WHO ACKNOWLEDGED MY ABILITIES.
WHY, IDIOT?!
ABOUT LOSING THE PAPER... THAT WAS BECAUSE OF OLD AGE. WE CAN'T BLAME HIM.
I'M THANKFUL THAT FOR THE FIRST TIME, I MET A PERSON LIKE THAT.
UNTIL THEN, TEACHERS TREATED ME AS A WEIRDO AND DIDN'T APPROACH ME.
GOODBYE, TOUMA.

PROFESSOR DORN IS OLD ALREADY...
PLEASE TAKE CARE OF HIM FOR ME.
AND YOU WILL BE ABLE...
TO PASS THROUGH THAT EVENT HORIZON!

THIS IS NOT TOKYO!
IT'S TOO MUCH! WHAT NEW TOKYO INTERNATIONAL AIRPORT?


THAT'S RIGHT ..
. . .
WHAT DO YOU THINK, SYD GREEN?
LIKE I TOLD YOU, I'M NOT RETIRING BECAUSE OF MY HEALTH! IT'S BECAUSE I WANT TO GIVE WAY TO YOU YOUNG PEOPLE!

ABSOLUTELY NOT
BUT... I WON'T LOSE TO YOU YOUNGSTERS!
RIGHT ...

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DEDEKIND CUT

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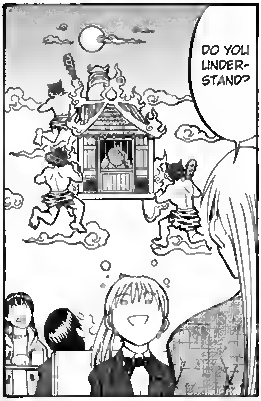

I completely don't understand the explanation either...

ORIONWAVE